

Reserves of Coal

Province of Alberta

At December 1999

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**ALBERTA ENERGY AND UTILITIES BOARD
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Overview

This report estimates the established initial resources, remaining reserves, and ultimate potential at December 31, 1999, and updates the nineteenth edition of *ERCB ST 94-31: Reserves of Coal, Province of Alberta*, published in July 1994. The report is issued in accordance with the Coal Conservation Act, Chapter C-14, Revised Statutes of Alberta, 1980, which is administered by the Alberta Energy and Utilities Boards (EUB) and mandates the EUB "to provide for the appraisal of Alberta's coal resources." A similar provision, relating to energy resources in general, appears in the Energy Resources Conservation Act, Chapter E-11, Revised Statutes of Alberta, 1980.

The EUB bases its estimate of coal resources presented in this report mainly on an evaluation of drillhole logs (geophysical, core, and descriptive) that companies and government organizations undertaking coal exploration in Alberta are required to submit to the EUB under the provisions of the Coal Conservation Act. Mine plans and geological reports and maps published by the Alberta Geological Survey and the Geological Survey of Canada have also been used.

The EUB estimates that Alberta's established initial in-place resources¹ of all types of coal total about 94 gigatonnes (Gt).² Of this amount about 34 Gt, or approximately 36 per cent, are considered to be recoverable (by surface and underground methods), and of these reserves, 1.9 Gt are within mine permit boundaries. The summary table below gives a breakdown by rank of resources and reserves from 244 coal deposits contained in 70 fields and 17 isolated deposits.

Summary of Established Initial In-Place Resources and Remaining Reserves of Coal in Alberta as of December 31, 1999

Rank	Mineability	Initial In-Place Resources (Gt)	Remaining Reserves (Gt)	Remaining Reserves in Mines (Gt)
Low- and medium-volatile bituminous and minor semi-anthracite	Surface	1.7	0.61	
	Underground	5.1	0.63	
	Total	6.8	1.3	0.29
High-volatile bituminous	Surface	2.6	1.8	
	Underground	3.3	0.91	
	Total	5.9	2.7	0.71
Subbituminous and minor lignite	Surface	14	8.5	
	Underground	67	21	
	Total	81	30	0.90
Grand Total		94	34	1.9

¹The EUB uses a uniform nomenclature (more fully discussed in Section 4) for all energy resources.

²giga = 10⁹; 1 tonne = 1000 kilograms.

The EUB has designated three coal-bearing regions based on coal rank, geology, and topography and generally coinciding with the province's principal physiographic areas. This designation also permits the grouping of coals of similar economics and amenable to similar exploration, mining, and reclamation techniques. The regions are

- the Mountain Region, which contains mainly low- and medium-volatile bituminous coals, often suitable, after processing, for metallurgical purposes, and which generally exhibits complex geological structures and steep topography;
- the Foothills Region, which contains mainly high-volatile C bituminous coal, mainly usable, after processing, as a high-grade thermal coal, and which generally exhibits moderately complex geological structures and hilly topography; and
- the Plains Region, which contains mainly subbituminous coals, suitable for captive power plants, domestic heating, and coal-conversion processes, and which generally exhibits tabular coal seams and relatively flat or incised plateau topography.

For all three regions various criteria and procedures (detailed in Section 5) are applied to the drillhole evaluations to determine the number, thickness, and density of coal seams. This information is then used to designate coal occurrences, deposits, and fields.

Coal is defined here as a naturally occurring mineral whose carbonaceous material, derived from vegetation and including residual moisture, constitutes 50 per cent or more by weight, determined on an equilibrium moisture basis. A **coal seam** is defined here as a three-dimensional unit consisting of one or more layers of coal, which may be separated by one or more layers of rock, provided that each rock layer is less than a specified thickness (see Section 5).

A **coal occurrence** is defined here as a location where the existence of coal seams greater than 0.6 metre (m) has been demonstrated but generally where the areal extent of the coal has not been established.

A **coal deposit** is defined here as an area in which coal seams have been sufficiently explored to permit calculation of established resources. The minimum initial in-place established resource considered to constitute a deposit is one million tonnes.

A **coal field** is defined here as an area containing either several deposits spaced no more than 8 kilometres (km) apart or a single deposit with initial in-place established resources of at least 50 million tonnes. Those deposits that do not form part of any field are referred to as **isolated deposits**.

The EUB has given all fields, as well as those isolated deposits of relatively large areal extent in the Plains Region, Designated Coal Field status and are listed in Appendix I. The designated field boundaries coincide with Provincial Land Survey grid lines or, in some instances, with topographic features (such as rivers).

The approximate boundaries of the coal regions, the locations of coal fields and isolated deposits, and the position of coal deposits within Plains Region coal fields are shown in Figure 1.1 (in pocket at back of report).

This report does not include information on coal bed methane.

2 Geology and Distribution

Coal-bearing formations underlie some 303 000 square kilometres (km^2), or approximately 46 per cent, of Alberta and are associated with Upper Jurassic, Cretaceous, and Lower Tertiary strata. Figure 2.1 shows where most of Alberta's significant coal-bearing formations outcrop, and Figure 2.2 presents a typical east-west cross-section. Figures 2.3 and 2.4 show the relative positions of the major coal measures within Alberta's Upper Jurassic/Lower Tertiary stratigraphic sequence.

The Mountain Region covers an area of about 26 000 km^2 , but according to MacKay (1946), coal seams under less than 760 metres (m) of cover underlie only 2700 km^2 of this region. The remainder is either underlain by deeper coal-bearing strata or the coal measures have been eroded. Coal is associated with the Upper Jurassic/Lower Cretaceous Kootenay Group and the Lower Cretaceous Luscar Group. Where strata are relatively undisturbed, seams may be up to 14 m thick.

The Foothills Region covers an area of some 28 000 km^2 and is generally bounded by the 1200 m elevation contour in the east and the 1500 to 1800 m contour in the west. Coal seams at depths less than 760 m occur only under 2200 km^2 (MacKay, 1946) and are associated with the Upper Cretaceous Brazeau Formation (and equivalents), the Upper Cretaceous/Lower Tertiary Coalspur Formation, and, near the Athabasca River, the Tertiary Paskapoo Formation. In relatively undisturbed areas, single coal seams attain thicknesses up to 6 m.

Because of extensive earth movements during the Laramide Orogeny, most coal-bearing strata in the Mountain and Foothills Regions lie in complex tectonic settings. Common features of coal deposits in the two regions are structural repetition, folding, faulting, thickening or thinning of coal seams as well as of surrounding strata, and changes of dip.

The Plains Region, which extends southwards from Lesser Slave Lake and is bounded in the west by the eastern slopes of the Rocky Mountains, covers some 250 000 km^2 or approximately 82 per cent of the total area underlain by coal-bearing strata in Alberta. Coal occurs in massive, laterally persistent zones in the Upper Cretaceous Oldman and Foremost Formations (which make up the Belly River Group), in the Horseshoe Canyon Formation, and in the Upper Cretaceous/Lower Tertiary Scollard Formation. Northwest of Edmonton, strata equivalent to the Horseshoe Canyon Formation form the upper part of the Wapiti Formation.

As illustrated in Figure 2.2, all these formations dip gently towards the southwest into the Alberta Syncline, which parallels the Rocky Mountains. The regional average dip of coal-bearing strata is 5 m per km, but locally it may vary from 2 to 12 m per km (Holter, Yurko, and Chu, 1975).

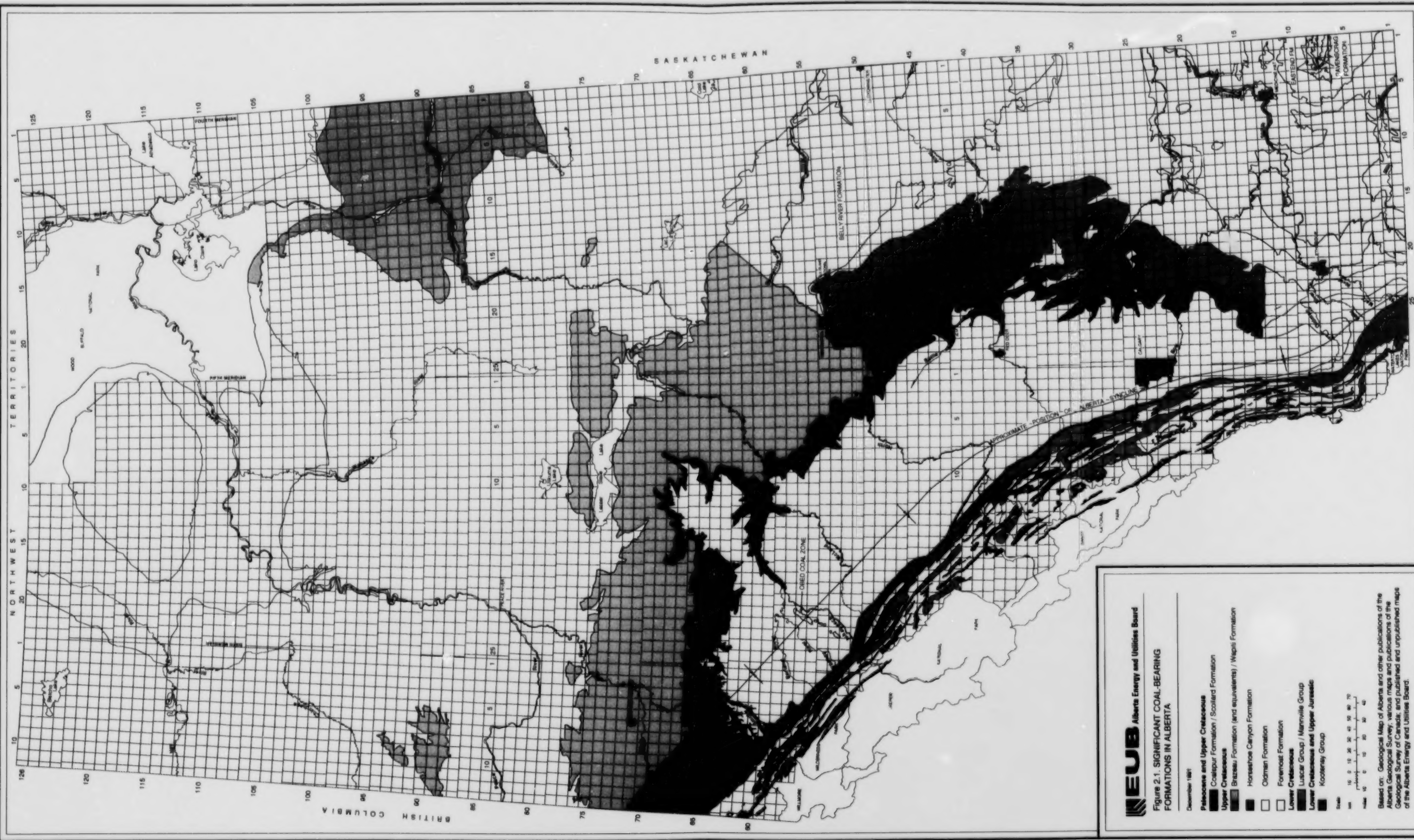
Lateral continuity of individual seams is variable, but coal zones are generally persistent over large areas. A single coal-bearing formation in the Plains Region frequently contains several seams, not all of which are mineable, and individual coal seams may attain thicknesses of up to 5 m, with cumulative thicknesses in coal zones of up to 20 m (Nurkowski, 1984).

The broad areal extent of the five major coal zones in the Plains Region is indicated in Figure 1.1, where the approximate position of the lower boundary of the zones is

shown. From the oldest to the youngest, these zones are designated as the Taber, Lethbridge, Drumheller, Carbon-Thompson, and Ardley (known as the Coal Valley zone west of the Alberta Syncline).

The following abbreviations are used in Figures 2.3 and 2.4. These figures are compiled from numerous publications by the Geological Survey of Canada, the Canadian Society of Petroleum Geologists, and the Alberta Geological Survey, as well as other published articles and/or comments by various earth scientists and coal industry representatives.

CG	Conglomerate
CRB-THM	Carbon-Thompson
CZ	Coal Zone
FM	Formation
GP	Group
MB	Member
PER	Period (geologic)
SS	Sandstone
Z	Zone



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Figure 2.1. SIGNIFICANT COAL-BEARING FORMATIONS IN ALBERTA

- December 1981
- Paleocene and Upper Cretaceous
 - Coalpur Formation / Scollard Formation
 - Upper Cretaceous
 - Brazeau Formation (and equivalents) / Wapiti Formation
 - Horseshoe Canyon Formation
 - Oldman Formation
 - Foremost Formation
 - Lower Cretaceous
 - Leduc Group / Mannville Group
 - Lower Cretaceous and Upper Jurassic
 - Kootenay Group

Scale
 0 10 20 30 40 50 60 70
 km
 0 10 20 30 40
 miles

Based on: Geological Map of Alberta and other publications of the Alberta Geological Survey, various maps and publications of the Geological Survey of Canada, and published and unpublished maps of the Alberta Energy and Utilities Board.

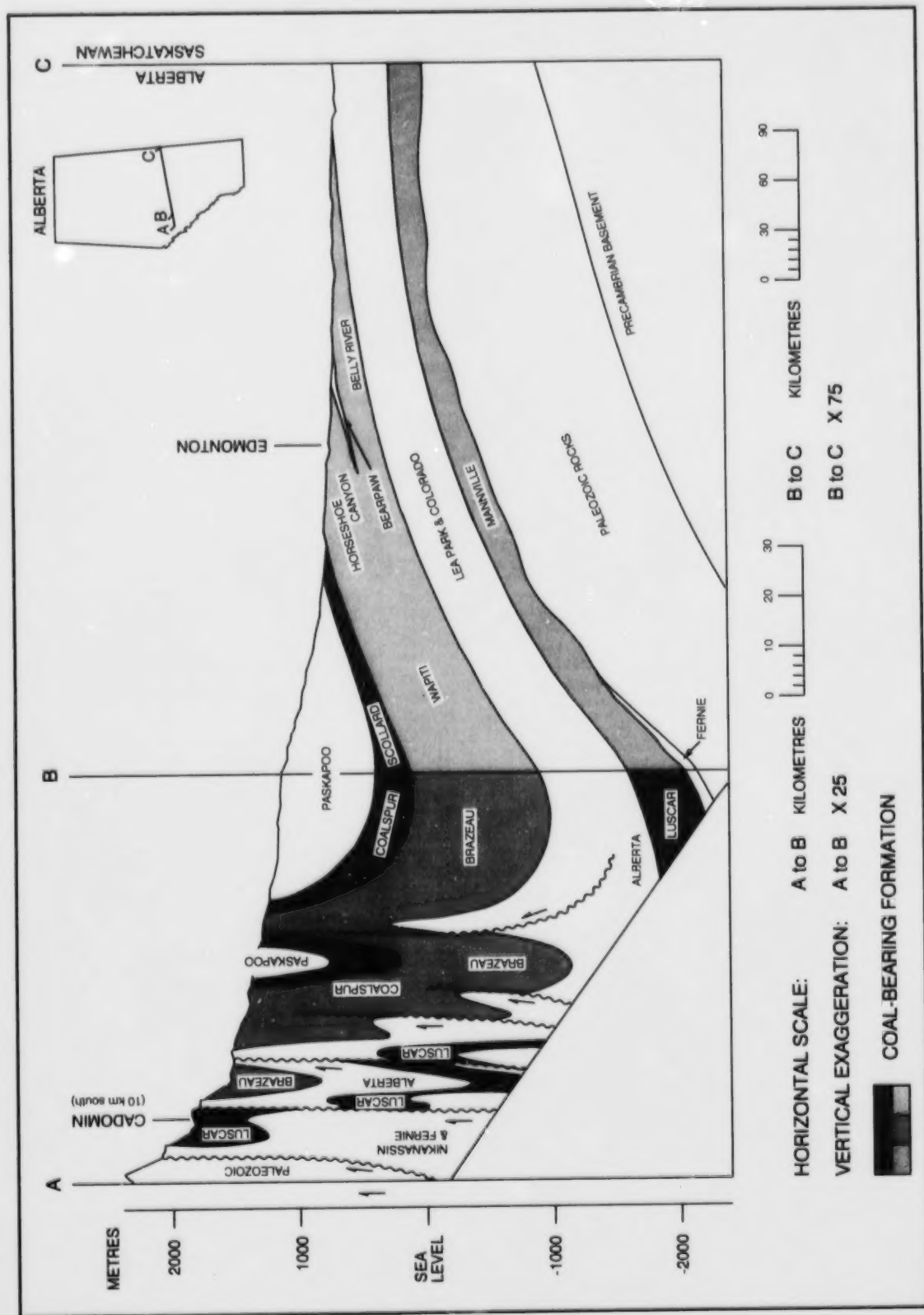


Figure 2.2. Representative Cross-Section Showing Central Alberta's Significant Coal-Bearing Formations

FIGURE 2.3. LITHOSTRATIGRAPHIC CORRELATION CHART OF THE MOUNTAIN AND FOOTHILLS REGION OF ALBERTA

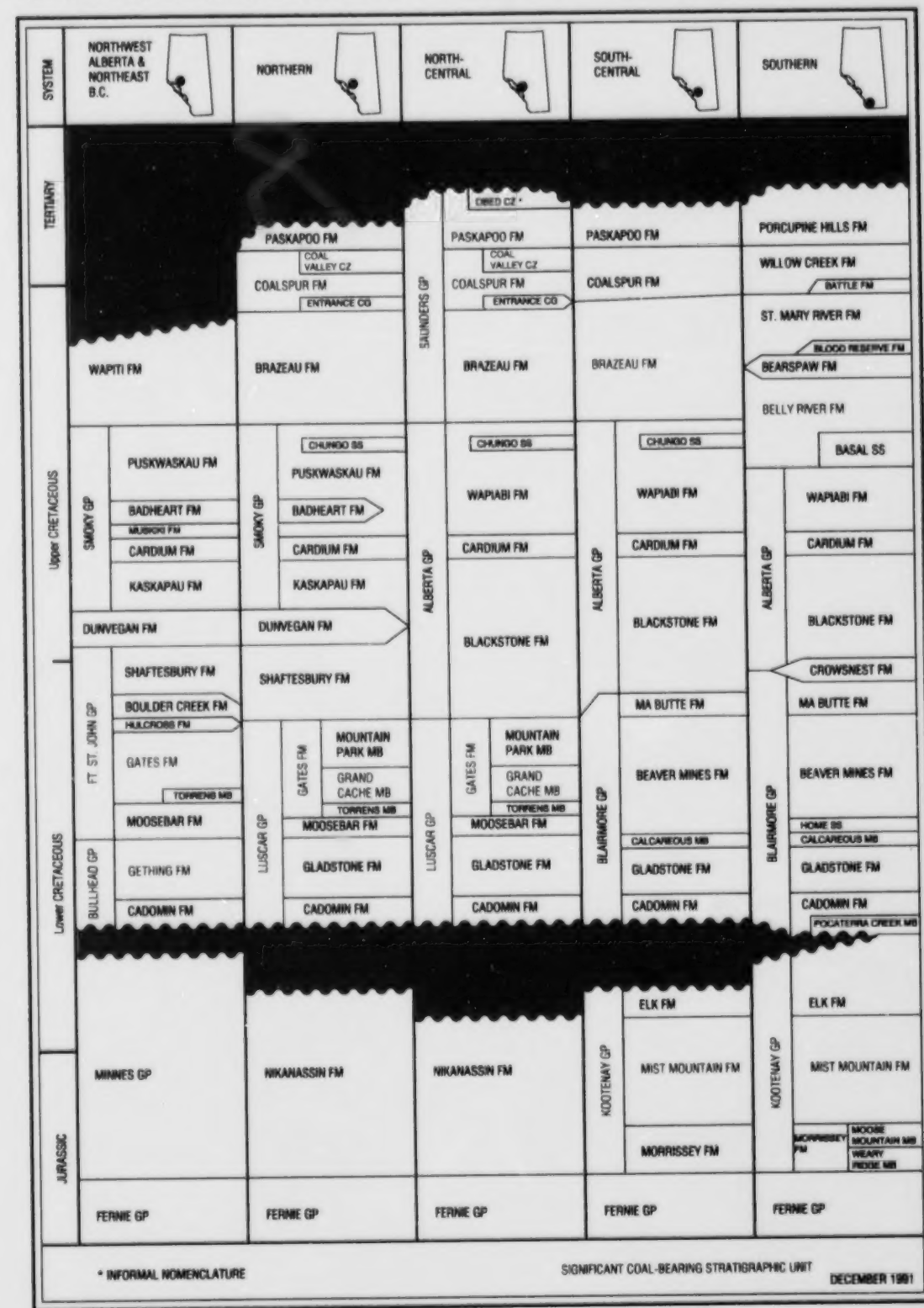
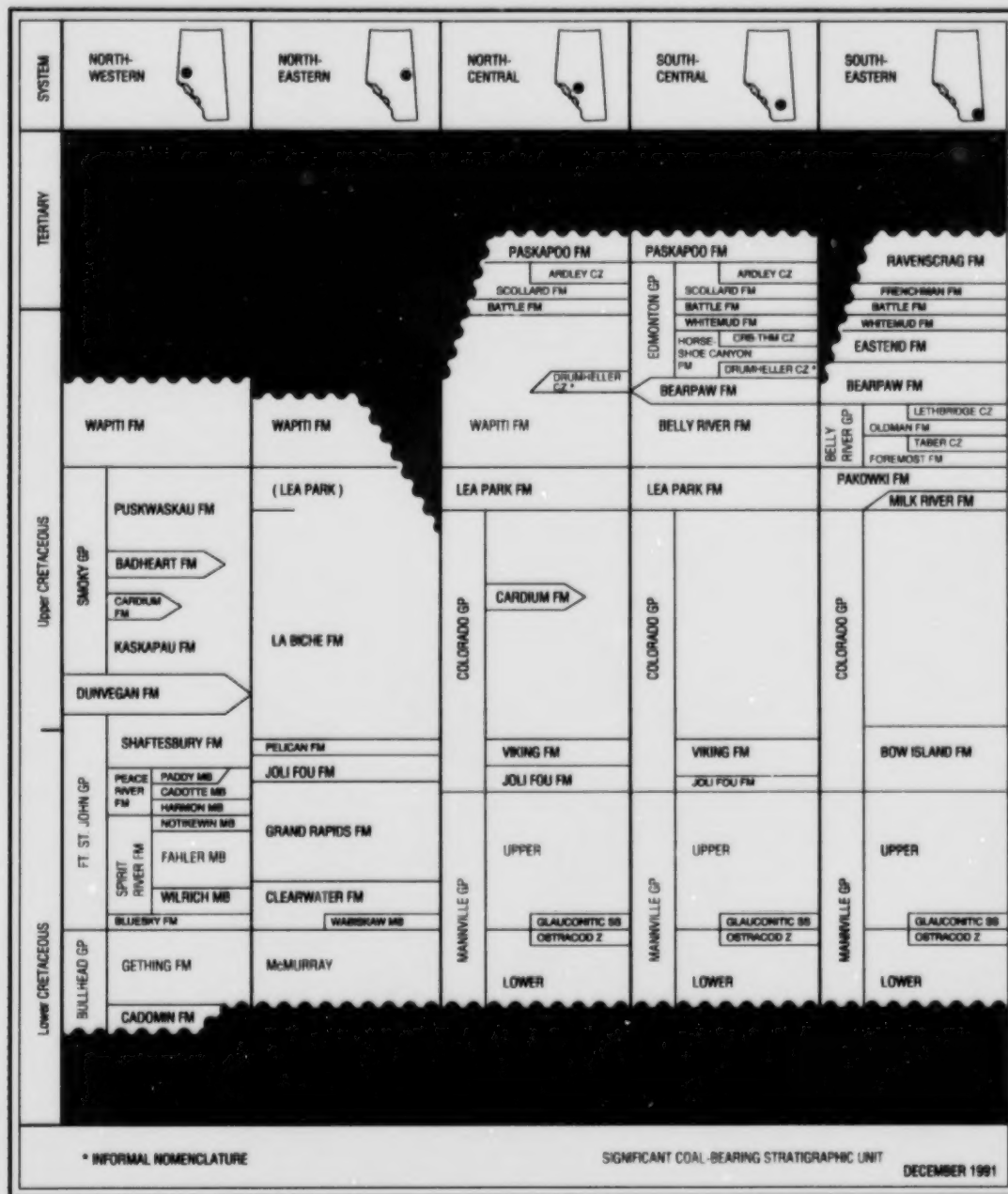


FIGURE 2.4. LITHOSTRATIGRAPHIC CORRELATION CHART OF THE PLAINS REGION OF ALBERTA



3 Rank and Sulphur Content

For administrative and regulatory purposes, the EUB uses the coal classification system of the American Society for Testing and Materials (ASTM), summarized in Table 3.1.

Alberta's coal deposits include all groups of coal other than anthracite and meta-anthracite. Rank increases generally from east to west, and coals of similar rank and properties form broad belts parallelling the Rocky Mountains, as shown in Figure 1.1.

Most of the Plains Region coals are of subbituminous B and C rank. Lignite occurs near the northern and northeastern limits of the stratigraphically lowest coal horizons and in the southeastern coal deposit of Cypress Hills. Near the region's western boundary, coal rank increases to subbituminous A. In the southwest and northwest, near Lethbridge and Musreau Lake respectively, coal is of high-volatile C bituminous rank.

The westerly increasing rank progression continues in the Foothills Region from high-volatile bituminous C to B and A. These coals are generally nonagglomerating. Most of the coal in the Foothills is high-volatile C, and there is some subbituminous A in the northeast of the region.

In the Mountain Region most of the coal is of medium- and low-volatile bituminous rank, but there are also some deposits of high-volatile A bituminous coal, mainly in the Crowsnest Pass area, and some semi-anthracite occurs in the Canmore area. Because caking properties are typically associated with higher-rank bituminous coals, metallurgical coals are confined to the Mountain Region.

A significant feature of Alberta's coal is its low organic and inorganic sulphur content, which is generally less than 1 per cent. However, considerable variations are sometimes found between seams in a single coal zone. In the southwest quarter of the province, total sulphur contents range from 0.5 to 1.0 per cent, and elsewhere they are usually less than 0.5 per cent. Work done by the Alberta Geological Survey (Nurkowski, 1984) shows that coals of the Belly River Group average about 0.66 per cent sulphur, of the Horseshoe Canyon Formation about 0.47 per cent, and of the Scollard Member of the Paskapoo Formation 0.39 per cent. The range of values is such that the occasional result exceeding 2 per cent sulphur can be expected.

Earlier data accumulated by the Alberta Research Council indicate that coals with the lowest sulphur content (0.2 per cent on a dry basis) occur in the Wabamun and Coalspur Fields. Those with the highest (1.8 per cent) have been reported from the Beaver Mines Field. However, 38 km northwest of this field, at Tent Mountain, coal with only 0.4 per cent sulphur has been recorded.

Table 3.1. Classification of Coal by Rank^a

Class	Group	Calorific Value ^b (MJ/kg) ^c	Volatile Matter ^d (%)	Fixed Carbon ^d (%)
Anthracitic	Meta-anthracite		2	98
	Anthracite		8	92
	Semi-anthracite		14	86
	Low-volatile bituminous		22	78
Bituminous	Medium-volatile bituminous		31	69
	High-volatile A bituminous	32.6		
	High-volatile B bituminous	30.2		
	High-volatile C bituminous	26.7		
Subbituminous	Subbituminous A*	24.4		
	Subbituminous B	22.1		
	Subbituminous C	19.3		
Lignite	Lignite A	14.7		
	Lignite B			

^aBased on ASTM D 88-77 in *Annual Book of ASTM Standards*, Part 26, Gaseous, Fuels; Coal and Coke (1980).

^bMoist, mineral-matter-free basis.

^cMegajoules per kilogram (mega = 10⁶; kilo = 10³).

^dDry, mineral-matter-free basis.

*High-volatile C bituminous if agglomerating.

4 Resource Terminology

The Joint Task Force on Uniform Reserves Terminology (Weaver *et al.*, 1978), set up under the Inter-Provincial Advisory Committee on Energy, recommended that certain terms and definitions for reporting hydrocarbon reserves be adopted throughout Canada. However, in order to make the recommended terminology appropriate for coal and to eliminate uncertainties created by earlier usages, the EUB has slightly modified it.

The modified terminology for coal is shown in graphic form in Figure 4.1. The principal terms are as follows:

- **Resource**—A gross quantity of coal calculated, interpreted, or presumed to exist in the ground.
- **Established Resource**—A body of coal that has been specifically delineated by drilling, trenching, driving adits, mine development operations, or other exploratory work, including some coal judged to exist contiguously on the basis of geological, seismic, or similar information.
- **Reserve**—That portion of an established resource considered recoverable by current technology under present or anticipated economic and social conditions.
- **Initial in-Place**—The quantity of a resource prior to any production.
- **Initial Reserve**—A reserve prior to deduction of any production.
- **Remaining Reserve**—The initial reserve less cumulative production.
- **Ultimate Potential**—An estimate of the initial reserves that will have become developed in an area by the time all exploratory and development activity has ceased, having regard for the geological prospects of that area and anticipated technological, economic, and social conditions; includes cumulative production, remaining reserves, and presumed future additions through extensions and revisions of existing deposits, and the discovery or delineation of new deposits.

The next section discusses more specific guidelines and rules used to define resources and reserves.

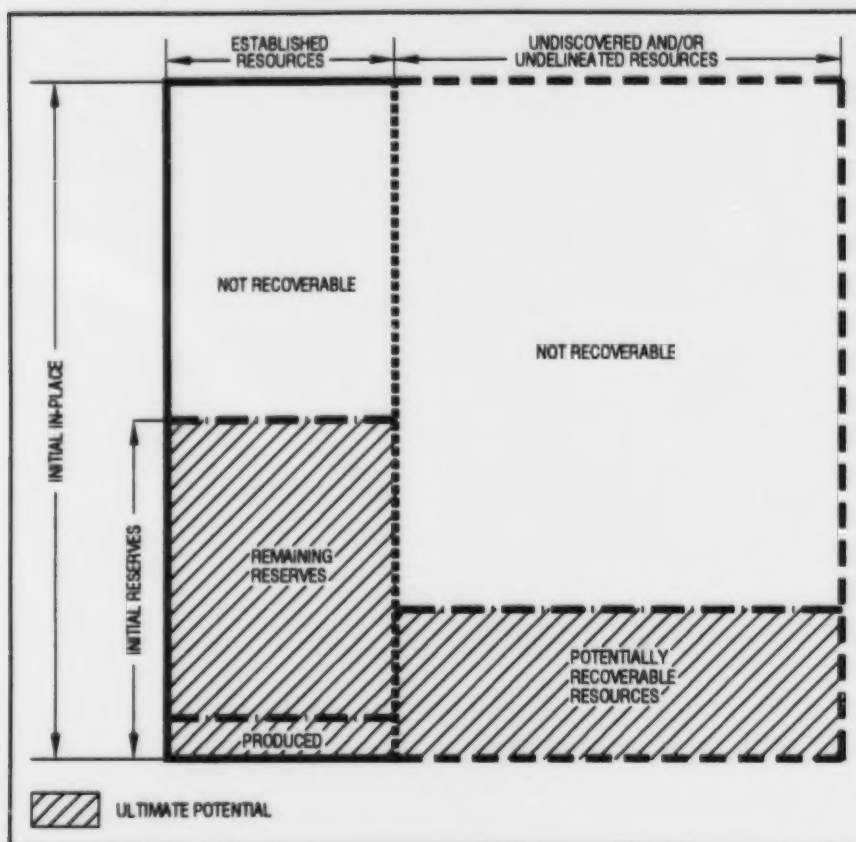


Figure 4.1. Schematic Representation of EUB Resource Terminology

5 Criteria and Procedures for Estimating Resources and Reserves

Coal reserves are calculated on the basis of information derived from such observation points as exploratory holes, adits, and mine workings. Where feasible, reserves have been estimated for all seams 0.6 m and thicker to a maximum depth of 600 m (formerly 610 m).

5.1 Spacing of Observation Points

The greater part of the reserves lie in deposits for which observation points are from 150 to 900 m apart. In a few instances where there is good evidence of seam continuity, data points up to 1800 m apart in the Mountains and Foothills and up to about 3500 m apart in the Plains are included.¹

5.2 Projection Beyond Observation Points

Where sufficient information is available, the true stratigraphic, structural, or erosional boundaries of a deposit are determined. Often, however, it appears that the coal is continuous well beyond the last observation point. In such instances, an arbitrary boundary is placed sufficiently close to the nearest observation points to allow a reasonable estimate of coal thickness within the defined deposit.

It has also sometimes been necessary, especially in the Plains Region, to subdivide very large continuous deposits and to treat the individual parts as if they were separate deposits.

5.3 Definition of Seams

Generally, individual coal beds lying close together in a stratigraphic sequence are considered to form a single seam if the rock layers separating them cannot be removed during mining. Since surface mining techniques are different in the three coal-bearing regions, due mainly to differences in geological complexity, a different maximum rock-parting thickness has been assigned to each region for seams likely to be mined from surface. The assigned values are 15 centimetres (cm) in the Plains Region, 30 cm in the Foothills Region, and 60 cm in the Mountain Region. For seams likely to be recovered by underground mining methods, a value of 30 cm has been assigned to all regions. Prior to 1990 a single value of 15 cm was used for all regions and both types of mining.

Where coal and rock partings are grouped into a single seam due to their thicknesses, the seam must still satisfy the definition of coal, i.e., must contain at least 50 per cent by weight carbonaceous material (including residual moisture). Rock partings that may be combined with their adjacent coal beds are therefore restricted by the total moisture and mineral matter contents of the single seam. Total seam moisture comprises the equilibrium moisture content of clean (0 per cent mineral matter) coal and the moisture content of the parting.

¹The relative accuracy with which an actual coal thickness may be established is a function of the variation in measured thicknesses between observation points as well as of the number of observation points. Acceptable drillhole spacings can therefore vary considerably from place to place.

The equilibrium moisture content is an intrinsic property of coal. The residual moisture content of any clean coal is thought to average about 45 per cent of its equilibrium moisture content. The moisture content of rock is assumed to be 5 per cent by weight unless the equilibrium moisture content of the coal is less than 5 per cent, in which case the rock moisture content is assumed to be the same as that of the clean coal. Total seam mineral matter is a combination of the finely disseminated inorganic material in the coal beds and the mineral matter of the parting. As a result the maximum allowable mineral matter content of the seam is controlled by the equilibrium moisture content of the clean coal. Figure 5.1 shows this relationship. Prior to 1990 the maximum value used by the EUB was 50 per cent for all coal seams located in the Mountain and Foothills Regions, an area of high-rank low-moisture coals, and 35 per cent for all coal seams located in the Plains Region (low rank and high moisture content).

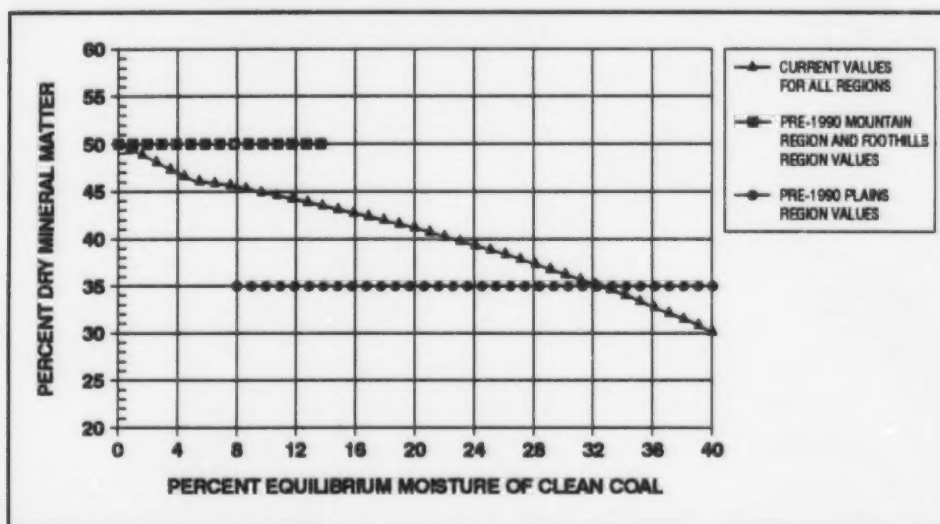


Figure 5.1. Maximum Allowable Mineral Matter Content of Coal Seams

5.4 Initial Quantity in-Place

Several techniques, in particular the block kriging, grid, polygon, and cross-section methods, have been used for calculating in-place volumes, with separate volumes calculated for surface- and underground-mineable coal.

In general, shallow coal is mined more cheaply by surface than by underground methods, and such coal is therefore classified as surface-mineable. At some stage of increasing depth and strip ratio the advantage passes to underground mining, and such coal is considered underground-mineable. The classification scheme used to differentiate between surface- and underground-mineable coal is very broadly based on depth and strip ratio designed to reflect relative costs but does not necessarily mean that the coal could be mined under the economic conditions prevailing today.

Surface-Mineable Coal

Surface-mineable coal that would be strip-mined is defined as lying within 60 m of the surface and with a waste-to-raw-coal ratio nowhere exceeding 13 cubic metres per tonne (m^3/t). Other surface-mineable coal, where overburden would be removed by truck and shovel methods, is considered to have an overall waste-to-raw-coal ratio of not greater than $12 \text{ m}^3/\text{t}$ (although quantities calculated prior to 1982 used $9 \text{ m}^3/\text{t}$).

Underground-Mineable Coal

Underground-mineable coal seams have been divided into three thickness categories:

- thin: 0.6 m and thicker, but less than 1.5 m
- medium: 1.5-3.6 m
- thick: thicker than 3.6 m

Where possible, coal within Category 2 of the land categories described in *A Coal Development Policy for Alberta* (Department of Energy and Natural Resources) (see Section 8) is classified as underground.

Tonnages are calculated using specific gravities from 1.30 to 1.68, depending on mineral matter content.

5.5 Definition of Established Resources

To calculate established resources, a standard error (based on uncertainties in coal thickness, area, and coal specific gravity) was determined for each deposit, and established in-place tonnages were taken to be two standard errors less than the best estimate (as calculated above).² For Mountain and Foothills deposits calculated prior to 1982 a subjectively conservative estimate of tonnages was made. Nevertheless, an assumed standard error of 5 per cent has now been applied to these deposits.

5.6 Recovery Factors

Certain parts of deposits are considered nonrecoverable:

- areas within or close to old mine workings, towns, major roads, railways, and bodies of water;
- small pockets of otherwise mineable coal isolated from the main body of mineable coal;
- all coal in category 1 of the land categories described in *A Coal Development Policy for Alberta*; and
- all coal in the *Kananaskis Country Sub-Regional Integrated Resource Plan* area.

Surface-Mineable Coal

A recovery factor of 90 per cent has been assigned to the remaining surface-mineable coal, followed by a coal loss of 8 cm from the top and with a dilution caused by the addition of 2 cm of noncoal material to the bottom of each seam. For reserves calculated prior to 1984 the recovery factor was 85 per cent or a coal loss of 8 cm top and bottom of the seam.

²For example, if the calculated tonnage for a deposit was 100 million and the standard error 10 million, the established quantity would be taken at $100 - (2 \times 10) = 80$ million tonnes.

Underground-Mineable Coal

In the case of underground-mineable coal, geologically complex environments may make mining significant parts of some deposits uneconomic. Because there is seldom sufficient information to outline such areas, it is assumed that in addition to the coal previously excluded, only a percentage of the remaining deposit areas is assumed to be mineable. Thus, on average, 50 per cent of the remaining deposit area would be mineable in the Mountain Region, 70 per cent in the Foothills, and 90 per cent in the Plains.

A mining recovery factor of 75 per cent is then applied to both medium and thick seams, with a maximum recoverable thickness of 3.6 m applied to thick seams. For reserves calculated prior to 1984, mining recovery factors of 75 and 50 per cent were applied to medium and thick seams respectively. Thin seams are not considered recoverable by underground methods.

Table 5.1 shows effective recovery factors, which are determined by multiplying deposit factors by mining recovery factors and are used to estimate underground-mineable coal reserves.

Table 5.1. Recovery Factors for Underground-Mineable Coal

Region	Seam Thickness	Deposit Factor	Mining Factor	Effective Factor
Mountain	Thin	0.5	0.00	0.00
	Medium	0.5	0.75	0.38
	Thick	0.5	0.75 x TR ^a	0.38 x TR ^a
Foothills	Thin	0.7	0.00	0.00
	Medium	0.7	0.75	0.53
	Thick	0.7	0.75 x TR ^a	0.53 x TR ^a
Plains	Thin	0.9	0.00	0.00
	Medium	0.9	0.75	0.68
	Thick	0.9	0.75 x TR ^a	0.68 x TR ^a

^aTR (thickness ratio) = $\frac{\text{Max. recoverable thickness (3.6 m)}}{\text{seam thickness in metres}}$

5.7 Classification by Strip Ratio

The reserves of surface-mineable coal in each deposit in the Plains Region have been subdivided areally on the basis of strip ratio (the ratio of volume of overburden and interburden to weight of recoverable coal). The percentage surface-mineable coal for incremental strip ratios has been calculated by combining the reserves in each strip ratio category for the entire region.

6 Established Resources and Reserves

The initial in-place established resources, as well as the initial and remaining reserves of coal fields and isolated coal deposits in Alberta's three coal regions, are given in Tables 6.1, 6.2, and 6.3.

The coal fields are listed alphabetically in each table. The cumulative total for the "isolated deposits" is at the bottom of the list of coal fields. The cumulative production of all abandoned mines located outside of deposit boundaries is then included under "miscellaneous," and the cumulative initial in-place resources and initial reserves have been increased accordingly. Figure 1.1 (in pocket at back of report) shows the location of the fields and isolated deposits.

In general, the totals in these tables are not arithmetic sums. Each total is arrived at by subtracting two standard errors (calculated separately for that total) from an arithmetic sum (see Appendix II). As a result, the actual quantity of the resource will more often than not be greater than that shown in the tables.

The number of coal seams shown for each field is that used for computing the in-place resource, although all of these seams are not necessarily continuous throughout the field. Seam thickness denotes the average aggregate true thickness used to calculate the initial in-place resource.

The estimated "as-mined" heating value of the coal is based on Alberta Research Council data and on analyses submitted to the EUB by industry. Modern mining methods generally result in greater dilution of the coal by partings than past, more selective mining practices. Allowance was made for this in estimating as-mined heating values.

Table 6.4 shows the net changes of reserves from December 31, 1993, the reserves date of the previous report (*ST 94-31*), to December 31, 1999. Tonnages have been rounded to two significant figures or to the nearest ten megatonnes if over one gigatonne.

Table 6.4. Changes in Alberta's Coal Reserves (Gt)

Region Mineability	1999	1993	Change
Mountain			
Surface	0.70	0.74	-0.04
Underground	0.69	0.72	-0.03
Foothills			
Surface	1.73	2.64	-0.90
Underground	0.33	0.28	+0.05
Plains			
Surface	8.41	8.76	-0.35
Underground	21.68	21.51	+0.17
Total (not arithmetic)	33.75	34.90	-1.16

In the Mountain Region the Mountain Park Coal Field has seen the addition of the Harris Creek, MacKenzie Creek, and Redcap Creek deposits. The Cadomin-Luscar and Mountain Park Coal Field boundaries have seen minor extensions. Many existing deposits in the Smoky River, Cadomin-Luscar, and Mountain Park Coal Fields have new reserve calculations.

In the Foothills Region no coal fields were expanded but many of the deposits in the Coalspur and Obed Mountain Coal Fields have new reserve calculations.

In the Plains Region the Fox Creek Coal Field has been completely updated. The deposits of South Brush Mountain, Snuff Mountain, Meekwap East, Meekwap West, Giroux, Waskahigan, and Atikkamek have been replaced by the new deposits of Ante Creek, Waskahigan River, Iosegun Lake, and Meekwap Lake. The Goose River Deposit has been renumbered and updated. In the Tofield-Dodds Coal Field the deposits of Tofield and Miquelon Lakes have been expanded and renumbered. The Berrymoor Deposit of the Wetaskiwin Coal Field has been expanded slightly. In the Battle River Coal Field the deposits of Central Battle River, Paintearth, and Gadsby have been amalgamated into the new deposit of Paintearth Creek. The former Halkirk Deposit has been incorporated into an enlarged Castor Deposit. The Sullivan Lake Deposit has been renumbered as a consequence. Within the Brooks Coal Field the deposits of West Brooks and Bow City-Kitsim have been combined into the new, larger deposit of Bow City. The deposits of Whitewood, Sundance, and KeePhillips of the Wabamun Coal Field, the Genesee Deposit of the Wetaskiwin Coal Field, and the Sheerness Coal Field (deposits containing large active coal mines) have new reserves calculations.

A detailed breakdown of reserves by individual deposit is given in Appendix III. Some basic information relating to the coal occurrences of the Mountain and Foothills Regions is given in Appendix IV.

Tables 6.1, 6.2, 6.3—Established Resources and Reserves of Coal in Alberta

Abbreviations Used in Tables 6.1, 6.2, and 6.3

Agg Avg Thkns	Aggregate average thickness
As Mined H V	As-mined heating value
ASTM	American Society for Testing and Materials
Cum Prod	Cumulative production
H-V A	High-volatile A bituminous
H-V B	High-volatile B bituminous
H-V C or HV C	High-volatile C bituminous
LIG A	Lignite A
L-V	Low-volatile bituminous
MAX DEPTH	Maximum depth
MJ/kg	Megajoules/kilogram
M-V	Medium-volatile bituminous
Recov Ratio	Recovery ratio
SA	Semi-anthracite
sq km	Square kilometres
SUB A	Subbituminous A
SUB B	Subbituminous B
SUB C	Subbituminous C
Surf	Surface-mineable
Tot	Total
U G	Underground-mineable
Year Calc	Year of most recent calculation

TABLE 6-1 **Established Resources And Reserves Of Coal In The Mountain Region Of Alberta,**
At 31 December 1999

Coal Field	Initial In-Place Resources	Recov Ratio	Initial Reserves	Cum Prod	Tot		Remaining Reserves Surf U G	Seams Used	Agg Avg Thkns	Map Area	Max Depth
	megatonnes						megatonnes		metres	sq km	metres
A LA PECHE LAKE	52	0.81	43	0.0	43	42	0	6	3.5	7	107
BANKHEAD	23	0.14	3	3.2	0	0	0	8	10.1	1	560
BEAVER CREEK	100	0.21	21	0.0	21	0	21	4	11.3	8	610
BEAVER MINES	33	0.12	4	0.4	4	0	4	1	2.2	10	610
BELLEVUE	305	0.23	71	27.2	44	1	43	5	6.2	31	610
BLAIRMORE	474	0.50	238	14.9	223	170	51	6	12.6	23	610
BRULE	81	0.18	15	1.7	13	3	10	5	5.3	12	610
CADOMIN-LUSCAR	490	0.48	237	136.8	100	86	12	4	9.6	26	587
CANMORE	823	0.02	16	16.0	0	0	0	24	16.2	40	610
COLEMAN	302	0.53	160	32.3	128	88	36	7	7.5	24	590
COSTIGAN	240	0.00	0	0.0	0	0	0	9	8.6	22	460
HIGHWOOD FORD	72	0.00	0	<0.1	0	0	0	6	8.8	5	610
KAKWA RIVER	583	0.03	15	0.0	15	0	15	8	9.6	43	457
KANANASKIS	85	0.00	0	0.0	0	0	0	4	5.1	9	488
MOBERLY CREEK	397	0.00	0	0.0	0	0	0	3	10.4	24	610
MOUNTAIN PARK	249	0.62	155	6.4	149	137	11	6	7.2	23	585
NORDEGG	261	0.30	79	9.6	69	0	69	7	14.2	15	579
OLDMAN RIVER	607	0.16	99	0.0	99	0	99	8	12.3	31	610
POCATERRA	122	0.00	0	0.0	0	0	0	5	19.0	3	610
RAM RIVER	468	0.19	88	<0.1	88	0	88	5	5.1	66	312
SAVANNA CREEK	158	0.05	7	0.0	7	0	7	6	12.2	6	610
SEVEN MILE CREEK	108	0.32	34	0.0	34	0	34	4	5.9	15	305
SMOKY RIVER	950	0.35	331	75.3	256	134	118	6	9.5	59	610
SOUTHSK RIVER	58	0.19	11	0.0	11	0	11	4	5.3	8	312
TENT MOUNTAIN	92	0.40	37	8.2	28	10	17	5	15.2	3	610
ISOLATED DEPOSITS	84	0.13	11	1.0	10	6	3	12	4.4	11	610
MISCELLANEOUS	0	0.26	0	<0.1	0	0	0				
TOTAL	7533	0.23	1737	333.1	1404	702	690		9.0	525	
TOTALS BY RANK											
	RANK										
SA	415	0.02	10	9.6	0	0	0		15.9	21	610
L-V	3011	0.18	538	153.3	384	201	179		9.7	190	610
M-V	3340	0.30	1006	146.8	859	399	450		8.7	244	610
H-V A	680	0.25	168	23.3	145	90	53		6.5	70	610

NOTES: SEE APPENDIX I FOR COAL FIELD LOCATIONS
 SEE APPENDIX II FOR METHOD OF SUMMATION

Mountain Region

Geological Horizon			Rank	As Mined H V	Year Calc	Remarks
Group	Formation	Member/Zone	ASTM	MJ/kg		
Luscar	Gates	Grande Cache	L-V/M-V	24.5	1987	
Kootenay	Mist Mountain		SA/L-V	0.0	1989	
Kootenay	Mist Mountain		M-V	27.4	1974	
Kootenay	Mist Mountain		H-V A	26.9	1976	
Kootenay	Mist Mountain		M-V/H-V A	27.5	1976	
Kootenay	Mist Mountain		M-V	27.2	1982	
Luscar	Gates	Grande Cache	L-V	27.7	1976	
Luscar	Gates	Grande Cache	L-V/M-V	25.5	1999	2 PERMITTED MINES
Kootenay	Mist Mountain		SA/L-V	0.0	1978	
Kootenay	Mist Mountain		M-V	25.2	1992	
Kootenay	Mist Mountain		L-V	0.0	1982	
Kootenay	Mist Mountain		L-V	0.0	1976	
Fort St. John	Gates		M-V	28.1	1976	
Kootenay	Mist Mountain		L-V	0.0	1976	
Luscar	Gates	Grande Cache	L-V/M-V	0.0	1976	
Luscar	Gates	Grande Cache	M-V/H-V A	27.9	1999	1 PERMITTED MINE
Luscar	Gates	Grande Cache	L-V/M-V	28.4	1976	
Kootenay	Mist Mountain		M-V	27.2	1976	
Kootenay	Mist Mountain		L-V	0.0	1976	
Luscar	Gates	Grande Cache	M-V	28.6	1984	
Kootenay	Mist Mountain		L-V/M-V	27.5	1976	
Luscar	Gates	Grande Cache	M-V	28.2	1976	
Luscar	Gates	Grande Cache	L-V	28.2	1999	2 PERMITTED MINES
Luscar	Gates	Grande Cache	M-V	27.9	1984	
Kootenay	Mist Mountain		M-V	28.4	1979	1 PERMITTED MINE
			L-V	27.5	1982	
			M-V	0.0	1993	ABANDONED MINES NOT IN FIELDS
				27.3		

SA	0.0
L-V	27.7
M-V	27.1
H-V A	27.4

TABLE 6-2 **Established Resources And Reserves Of Coal In The Foothills Region Of Alberta,**
At 31 December 1999

Coal Field	Initial	Recov	Initial	Cum				Seams	Agg	Map	Max
	In-Place	Ratio	Reserves	Prod				Used	Avg	Area	Depth
	Resources				Tot	Remaining			Thkne		
	megatonnes					Surf	U G		metres	sq km	metres
COALSPUR	761	0.53	405	94.6	310	276	29	9	5.6	75	610
HANNINGTON	166	0.70	117	0.0	117	109	4	3	2.7	46	96
JARVIS LAKE	479	0.37	175	0.0	175	95	75	21	5.4	61	343
MCLEOD RIVER	1913	0.65	1248	1.5	1246	1054	177	12	8.8	144	599
MORLEY HILL	60	0.57	34	0.0	34	29	3	5	4.0	11	236
OBED MOUNTAIN	177	0.83	147	33.2	113	113	0	3	3.8	33	161
ISOLATED DEPOSITS	74	0.50	37	2.7	35	14	20	3	2.5	21	610
MISCELLANEOUS	2	0.54	1	1.1	0	0	0				
TOTAL	3705	0.60	2206	133.1	2073	1727	327		6.1	393	

TOTALS BY RANK

	RANK										
H-V A	3	0.04	0	0.1	0	0	0		1.8	1	274
H-V B	120	0.56	68	1.9	66	44	20		3.2	28	610
H-V C	3318	0.59	1944	119.3	1825	1508	299		7.0	300	610
SUB A	244	0.74	180	11.9	168	160	4		2.8	65	161

NOTES: SEE APPENDIX I FOR COAL FIELD LOCATIONS
 SEE APPENDIX II FOR METHOD OF SUMMATION

Foothills Region

Geological Horizon			Rank	As Mined H V	Year Calc	Remarks
Group	Formation	Member/Zone	ASTM	MJ/kg		
Saunders	Coalspur	Coal Valley	H-V C	21.2	1999	2 PERMITTED MINES
Saunders	Paskapoo	Obed	SUB A	20.3	1991	
Saunders	Coalspur	Coal Valley	H-V C	19.6	1991	
Saunders	Coalspur	Coal Valley	H-V C	20.8	1999	1 PERMITTED MINE
Saunders	Brazeau	Upper	H-V B	24.4	1993	
Saunders	Paskapoo	Obed	HV C/SUB A	20.6	1999	1 PERMITTED MINE
			H-V B	24.8	1976	
			H-V B/C	0.0	1993	ABANDONED MINES NOT IN FIELDS
				20.8		

H-V A 0.0
 H-V B 24.6
 H-V C 20.7
 SUB A 20.3

TABLE 6-3 **Established Resources And Reserves Of Coal In The Plains Region Of Alberta,**
At 31 December 1999

Coal Field	Initial In-Place Resources	Recov Ratio	Initial Reserves	Cum Prod	Tot	Remaining Reserves		Seams Used	Agg Avg Thkns	Map Area	Max Depth
	megatonnes					Surf	U G		metres	sq km	metres
ALIX	4942	0.30	1507	0.9	1507	363	1115	7	3.2	1104	283
ARDLEY	9936	0.56	5535	3.7	5532	599	4902	9	3.2	2196	327
BARRHEAD	552	0.16	88	<0.1	88	64	18	3	1.5	283	90
BATTLE RIVER	4156	0.34	1400	81.3	1319	815	484	8	2.4	1338	165
BLACKFOOT	254	0.50	128	0.2	128	103	19	3	3.4	58	105
BOW ISLAND	289	0.05	15	0.1	15	11	2	2	1.2	186	62
BROOKS	612	0.40	243	1.4	241	109	126	3	1.7	264	140
BUFFALO HILL	2402	0.39	942	0.0	942	0	942	5	4.9	395	446
CHAIN LAKES	110	0.13	15	<0.1	15	3	10	2	1.5	59	105
CLEAR HILLS	240	0.24	59	0.0	59	0	59	2	1.3	163	102
DRUMHELLER	2848	0.23	657	53.3	604	53	543	9	3.0	714	298
EAST BROOKS	259	0.57	149	0.0	149	144	3	3	1.5	126	38
EAST EDMONTON	2204	0.27	586	<0.1	586	167	408	11	4.1	417	189
EDMONTON	51	0.26	13	13.2	0	0	0	4	5.0	8	90
EDSON RIVER	2067	0.19	395	0.0	395	0	395	11	13.5	110	600
FIREBAG	161	0.23	36	0.0	36	0	36	8	11.2	14	126
FOX CREEK	2578	0.29	757	0.0	757	617	127	10	1.9	1023	265
GARDEN PLAIN	74	0.56	42	<0.1	41	41	0	1	1.1	49	32
GRASSY LAKE	123	0.63	78	0.4	77	77	0	4	1.8	54	40
HUSSAR	1639	0.22	368	0.0	368	40	319	10	3.4	345	236
LESSER SLAVE LAKE	173	0.22	38	0.0	38	38	0	6	1.6	88	81
LETHBRIDGE	1246	0.39	491	23.3	468	0	468	4	1.8	482	346
MAYERTHORPE	6096	0.41	2474	2.0	2472	188	2256	6	3.2	1347	338
MCGREGOR LAKE	56	0.01	1	0.5	0	0	0	7	1.1	45	255
MEDICINE HAT	771	0.28	213	0.9	212	7	190	5	2.1	304	204
MORINVILLE	2155	0.33	712	8.6	703	661	33	4	2.2	724	149
MUSREAU LAKE	554	0.38	208	0.0	208	128	70	7	2.2	180	140
ROLLING HILLS	371	0.25	94	<0.1	94	0	94	2	2.4	127	121
ROSEMARY	121	0.08	10	0.0	10	0	10	2	1.3	81	84
SCOLLARD	316	0.24	75	0.7	74	24	45	4	2.4	99	152
SHEERNESS	235	0.69	162	44.0	118	118	0	3	2.0	90	46
SIMONETTE	194	0.00	0	0.0	0	0	0	6	4.8	36	89
SOUTH SWAN HILLS	4586	0.25	1165	<0.1	1165	600	541	8	2.8	1172	320
STRATHMORE	1678	0.44	744	0.3	743	7	734	4	4.1	306	365
TABER	151	0.08	11	3.9	7	7	0	1	0.9	126	78
TOFIELD-DODDS	7251	0.18	1341	7.5	1334	620	688	6	4.0	1342	216
WABAMUN	9539	0.55	5209	329.9	4880	1163	3676	6	6.3	1076	302
WETASKIWIN	7169	0.46	3326	29.7	3296	1231	2042	10	3.6	1412	270
WINDFALL	901	0.35	313	0.0	313	0	313	5	2.6	280	370
ISOLATED DEPOSITS	326	0.19	61	1.7	60	51	7	3	1.3	203	96
MISCELLANEOUS	2	0.55	1	1.2	0	0	0				
TOTAL	82248	0.37	30805	608.9	30196	8411	21683		3.2	18428	

NOTES: SEE APPENDIX I FOR COAL FIELD LOCATIONS
 SEE APPENDIX II FOR METHOD OF SUMMATION

Plains Region

Geological Horizon			Rank	As Mined H V	Year Calc	Remarks
Group	Formation	Member/Zone	ASTM	MJ/kg		
Edmonton	Scollard	Ardley	SUB B	17.1	1991	SOME CARBON-THOMPSON COAL; 1 PERMITTED MINE
Edmonton	Scollard	Ardley	SUB B	18.2	1992	SOME CARBON-THOMPSON COAL
	Wapiti	Drumheller	SUB C	17.0	1978	
Edmonton	Horseshoe Canyon	Drumheller	SUB C	18.1	1999	3 PERMITTED MINES
Edmonton	Horseshoe Canyon	Drumheller	SUB A/B	19.6	1981	
Belly River	Foremost	Taber	SUB B	19.4	1978	
Belly River	Oldman	Lethbridge	SUB A/B	19.9	1999	1 PERMITTED MINE
Edmonton	Horseshoe Canyon	Drumheller	SUB A	20.2	1984	
Edmonton	Horseshoe Canyon	Drumheller	SUB C	16.0	1983	
	Wapiti		LIG A	14.7	1989	
Edmonton	Horseshoe Canyon	Drumheller	SUB B	18.2	1985	DEPOSITS 9 & 10, ARDLEY COAL
Belly River	Oldman	Lethbridge	SUB B	18.5	1988	
Edmonton	Horseshoe Canyon	Drumheller	SUB B/C	17.3	1988	
Edmonton	Horseshoe Canyon	Drumheller	SUB B/C	0.0	1993	
	Scollard	Ardley	SUB A	21.3	1993	
	McMurray		LIG A	15.0	1978	
	Scollard	Ardley	SUB B/C	16.6	1999	
Edmonton	Horseshoe Canyon	Drumheller	SUB C	16.6	1979	
Belly River	Foremost		SUB A/B	17.4	1983	
Edmonton	Horseshoe Canyon	Drumheller	SUB A/B	19.9	1987	
	Wapiti		LIG A	13.9	1978	
Belly River	Oldman	Lethbridge	H-V C	22.4	1987	
	Scollard	Ardley	SUB B	17.6	1990	1 PERMITTED MINE
Edmonton	Horseshoe Canyon	Drumheller	SUB A	0.0	1978	
Belly River	Foremost		SUB C	17.0	1984	
	Wapiti	Drumheller	SUB C	17.1	1981	3 PERMITTED MINES
	Coalspur	Coal Valley	H-V C	19.9	1987	COAL VALLEY COAL IS EQUIVALENT TO ARDLEY COAL
Belly River	Foremost	Taber	SUB B	18.1	1979	
Belly River	Oldman	Lethbridge	SUB B	18.2	1988	
Edmonton	Scollard	Ardley	SUB B	16.7	1982	DEPOSIT 1 & SOME OF OTHERS, CARBON-THOMPSON COAL
Edmonton	Horseshoe Canyon	Drumheller	SUB C	16.8	1999	1 PERMITTED MINE
	Scollard	Ardley	SUB A	0.0	1979	
	Scollard	Ardley	SUB C	16.1	1993	
Edmonton	Horseshoe Canyon	Drumheller	SUB A	20.7	1987	SOME SHALLOW CARBON-THOMPSON COAL
Belly River	Foremost	Taber	SUB A	22.2	1986	
Edmonton	Horseshoe Canyon	Drumheller	SUB C	17.7	1999	2 PERMITTED MINES
	Scollard	Ardley	SUB B	19.3	1999	2 PERMITTED MINES
Edmonton	Scollard	Ardley	SUB B	18.5	1999	SOME CARBON-THOMPSON COAL; 2 PERMITTED MINES
	Scollard	Ardley	SUB B	16.3	1993	
			SUB C	15.9	1978	1 PERMITTED MINE
			SUB B	0.0	1993	ABANDONED MINES NOT IN DEPOSITS
				18.3		

TABLE 6-3 (Continued)

Coal Field	Initial In-Place Resources	Recov Ratio	Initial Reserves	Cum Prod	Tot	Remaining Reserves Surf U G	Seams Used	Agg Avg Thkns	Map Area	Max Depth
	megatonnes					megatonnes		metres	sq km	metres

TOTALS BY RANK

	RANK									
H-V B	0	0.64	0	0.2	0	0	0	1.1	0	50
H-V C	1718	0.39	663	23.4	640	102	526	1.9	642	346
SUB A	8116	0.32	2619	5.9	2613	99	2496	4.3	1369	600
SUB B	48477	0.43	20630	424.2	20406	4599	15733	3.3	10213	370
SUB C	22499	0.28	6203	154.8	6048	3446	2544	2.8	5869	320
LIG A	751	0.26	199	0.4	198	76	112	1.8	334	126

NOTES: SEE APPENDIX I FOR COAL FIELD LOCATIONS
SEE APPENDIX II FOR METHOD OF SUMMATION

Plains Region

Geological Horizon			Rank	As Mined H V	Year Calc	Remarks
Group	Formation	Member/Zone	ASTM	MJ/kg		

H-V B	0.0
H-V C	21.9
SUB A	20.5
SUB B	18.3
SUB C	17.2
LIG A	14.7

7 Surface-Mineable Coal in the Plains Region

As of December 31, 1999, 8411 megatonnes (Mt) of remaining surface-mineable coal reserves were established in the Plains Region. Figure 7.1 shows the percentage and cumulative percentage of these reserves as a function of strip ratio (described on page 5-3), as well as the number of megatonnes in each strip ratio category.

Figure 7.1 indicates that the average strip ratio of surface-mineable Plains coal is about 7 m³ of waste per tonne of coal, that approximately one-quarter of the reserves are available at strip ratios of 5 to 1 or less, and that half the reserves are available at strip ratios between 5 and 9 to 1.

Figure 1.1 (in pocket at back of report) shows the Plains areas in which coal is most amenable to recovery by surface mining.

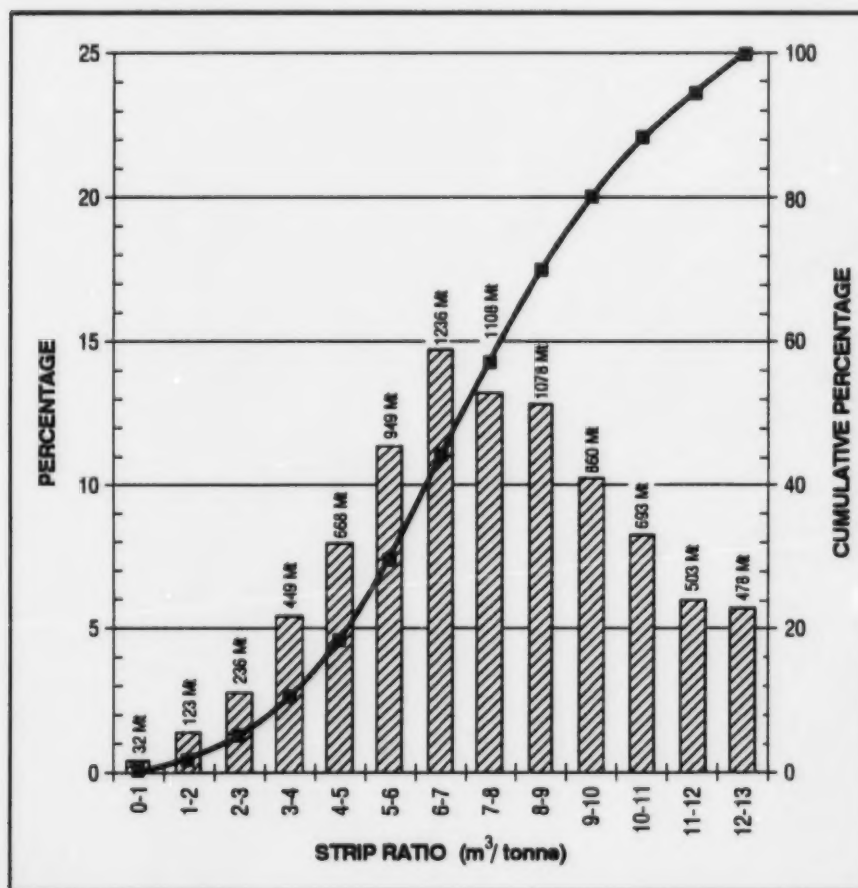


Figure 7.1. Percentage and Cumulative Percentage of Remaining Surface-Mineable Plains Coals Reserves versus Strip Ratio

8 The Coal Development Policy for Alberta and Reserves of Coal

The *Coal Development Policy for Alberta*, released in 1976, divides Alberta into three regions:

- Settled Region
- Northern Forested Region
- Eastern Slopes Region

Within these regions, provincial lands are classified into four categories with respect to coal exploration and development. In summary, the allowable activity in these categories is as follows:

Category	Exploration	Development
1	None	None
2	Limited exploration permitted under strict control	Restricted development, underground or in situ only
3	Exploration permitted under normal approval procedures	Restricted development
4	Exploration permitted under normal approval procedures	Development permitted under normal approval procedures

The Settled Region is mostly category 4 land but also includes some category 1 areas.

The Northern Forested Region is mostly category 3 land but also includes some category 1 areas.

The Eastern Slopes Region includes areas in categories 1, 2, and 3 and some in category 4.

When the Coal Development Policy was first introduced, about 38 per cent of what would otherwise have been considered recoverable reserves in the EUB-designated Mountain Region had to be reclassified as nonrecoverable. These potential reserves are mostly in category 1 but also include some potentially surface-mineable reserves in category 2.

The tables in Appendix III indicate the category for each deposit as classified by the Coal Development Policy.

A combination of two methods has been used to estimate ultimate potentials. The first, the volume method, gives a broad estimate of area, coal thickness, and recovery ratio for each coal-bearing horizon, while the second method estimates the ultimate potential from the trend of initial reserves versus exploration effort.¹

A large degree of uncertainty is inevitably associated with estimation of an ultimate potential. New data could substantially alter results derived from the current best fit. To avoid large fluctuations of ultimate potentials from year to year, the EUB has adopted the policy of using the figures published in the previous *Reserves of Coal* report and adjusting them slightly to reflect the most recent trends.

Ultimate potentials for the Mountain, Foothills, and Plains Regions now stand at 3.6, 8.4, and 610 Gt respectively. Table 9.1 gives quantities by rank for surface- and underground-mineable ultimate in-place resources as well as the ultimate potentials. Most of the ultimate potential lies in the Drumheller and Ardley zones of the Plains Region.

Table 9.1. Ultimate In-Place Resources and Ultimate Potentials*

Coal Rank	Mineability	Ultimate In-Place (Gt)	Ultimate Potential (Gt)
Low- and medium-volatile bituminous	Surface	2.7	1.2
	Underground	18	2.0
	Total	21	3.2
High-volatile bituminous	Surface	10	7.5
	Underground	490	150
	Total	500	160
Subbituminous	Surface	14	9.3
	Underground	1 400	460
	Total	1 500	470
Grand Total		2 000 ^b	620

*Tonnages have been rounded to two significant figures.

^bWork done by the Alberta Geological Survey suggests that the value is likely significantly larger.

¹See ERCB 82-31, Chapter 9. References for original volume calculations are given in this report.

10 Mine Permit Reserves

Any developer wishing to mine coal in Alberta must first obtain a permit and licence from the EUB. An application for a permit must include extensive information on such matters as coal reserves, proposed mining methods, and marketing of coal, and coal reserves within the applied-for mine area must be at least sufficient to meet the marketing plans of the applicant.

Tables 10.1 and 10.2 show the established resources and reserves within current mine permit boundaries. Included are current and cumulative production figures, and since coal mined in the Mountain and Foothills Regions often requires preparation before shipment, the tables also show cleaned coal output from mines in these regions. Cumulative production figures are for the current permit boundaries. As such, they include production from abandoned mines located inside the boundaries, and they exclude the production from those mined-out areas of the permitted mine now outside the boundaries.

Proximate analyses and heating values relate to coal as sold and are taken from published sources. Where such sources give several sets of analyses for a mine, usually referring to separate size fractions, a simple arithmetic average has been used.

Three small inactive plains mines in the process of being reclaimed have been removed from Table 10.2 even though they still have a valid permit. The mines are Picardville (Mine Number 1523), Warburg (1670), and Sissons (809). The Montgomery (443) and Sheerness (1782) mines have been amalgamated into the new Sheerness (1809) Mine.

A designation is given to those mines which were active (either under construction or produced some quantity of coal) during the current year. Mine locations are shown in Figures 1.1 (in pocket at back of report).

Tables 10.1 and 10.2—Established Resources and Reserves of Coal in Permitted Mine Sites

Abbreviations Used in Tables 10.1 and 10.2

ASTM	American Society for Testing and Materials
Cum	cumulative
ha	hectares
h-v C	high-volatile C bituminous
lig-A	lignite A
l-v	low-volatile bituminous
MJ/kg	megajoules per kilogram
Moist	moisture
Mt	megatonnes
m-v	medium-volatile bituminous
Ref	reference source for quality information
S	sulphur
sub-A	subbituminous A
sub-B	subbituminous B
sub-C	subbituminous C
VM	volatile matter

Reference Sources for Coal Quality Used in Tables 10.1 and 10.2

A	Bonnell, G. W., and Janke, L.C., <i>Canmet Report 85-11E</i>
B	Tibbetts, T. E., <i>Mines Branch Information Circular IC 314</i>
C	Montgomery, W. J., and Behnke, G.C., <i>Mines Branch Information Circular IC182</i>
D	Montgomery, W. J., and Behnke, G. C., <i>Mines Branch Information Circular IC 173</i>
E	Swartzman, E., <i>Mines Branch Fuels Division, Report No. 836</i>
F	Campbell, J. D., <i>Research Council of Alberta Preliminary Report 64-3</i>
G	Company's mine permit application
H	Faurschou, D. Bonnell, G. W., and Janke, L.C., <i>Canmet Report 82-13E</i>

Table 10.1. Established Resources and Reserves of Coal in Permitted Mine Sites, Mountain and Foothills Regions of Alberta, as of December 31, 1999

Field Deposit	Company or Mine Name	Permit Number	Mine Number	Permit Area (ha)	Initial in-Place Resources (Mt)
Cadomin-Luscar					
Gregg-Drinnan	Gregg River	C 99-21	1770 *	3 540	103
Luscar, Gregg-Drinnan, & Cadomin West	Luscar	C 99-23	1768 *	5 050	332
Coalspur					
Coal Valley	Coal Valley	C 92-11	1778 *	6 400	349
Mercoal	Mercoal	C 83-14	1799	6 920	138
McLeod River					
McPherson Creek & White Creek	McLeod River	C 82-60	1798	8 060	546
Mountain Park					
Prospect Creek, Thornton Creek, Harris Creek, MacKenzie Creek, & Redcap Creek	Cheviot	C 97-14	1808	7 105	249
Obed Mountain					
Marsh South, Obed North, & Obed South	Obed	C 89-31	1791 *	7 590	162
Smoky River					
Caw Creek, No. 12 Mine, Sheep-Beaverdam, Smoky-Sheep, & No. 5 Mine	Smoky River (surface) (underground)	C 98-6 C 98-19	1774 * 1765 *	8 500	604
Tent Mountain	Tent Mountain	C 85-16	1695	750	92
Total, Active in 1999				31 080	1 550
Total, Not Active				22 835	1 025
Grand Total				53 915	2 575

*Active in 1999.

*As-received basis.

*Equilibrium basis.

Mountain and Foothills Regions

Initial Reserves (Mt)	Production (Mt)			Remaining Reserves (Mt)	Rank (ASTM)	Clean Coal Quality					Ref
	1999 Raw	1999 Clean	Cum Raw			Heating Value (MJ/kg)	Moist (%)	Ash (%)	VM (%)	S (%)	
62	2.4	1.9	44.8	18	m-vf-v	30.8	5.8 ^b	9.4	19.9	0.3	A
130	3.0	2.4	86.8	43	m-vf-v		7.2 ^b	9.1	20.5	0.2	A
167	3.3	1.6	89.4	78	h-v C	25.2	9.2 ^c	10.3	30.0	0.3	A
115	-	-	1.2	114	h-v C	27.3	7.6 ^c	11.8	34.4	0.3	G
417	-	-	<0.1	417	h-v C	26.8	11.0 ^c	11.3	34.6	0.3	G
155	-	-	6.4	149	m-vh-vA	29.7	7.5 ^b	8.8	23.3	0.3	G
137	2.5	1.5	33.2	104	h-v C/ sub-A	23.6	12.3 ^c	10.9	37.8	0.4	A
171	2.1	1.8	75.3	96	l-v	32.8	3.0 ^b	6.9	16.9	0.4	A
36	-	-	7.3	29	m-v	30.2	4.2 ^b	11.8	22.9	0.4	H
667	13.3	9.2	236.5	339							
723	-	-	8.5	709							
1 390	13.3	9.2	245.0	1 048							

Table 10.2. Established Resources and Reserves of Coal in Permitted Mine Sites, Plains Region of Alberta, as of December 31, 1999

Field Deposit	Company or Mine Name	Permit Number	Mine Number	Permit Area (ha)	Initial in-Place Resources (Mt)
Battle River					
Forestburg	Diplomat	C 79-1	1578	340	4.4
Paintearth Creek	Vesta	C 89-6	1046 *	2 410	69
Paintearth Creek	Paintearth	C 89-5	1781 *	2 710	94
Brooks					
Bow City	Bow City	C 87-20	1802	460	12
Mayerthorpe					
Park Court	Pembina ^b	C 76-67	1739	305	3.3
Morinville					
Manawan Lake	Egg Lake	C 76-60	1582 *	284	7.0
Cardiff	Star-Key	C 81-1	1626	260	6.9
Sheerness	Sheerness	C 99-6	1809 *	7 000	196
Tofield-Dodds					
Tofield	Tofield	C 86-5	1803	1 000	17
Dusty Lake	Dodds	C 98-22	205 *	105	1.4
Wabamun					
Whitewood	Whitewood	C 97-26	1757 *	2 800	163
Sundance & Keephills	Highvale	C 88-8	1769 *	12 140	1 021
Wetaskiwin					
Genesee	Genesee	C 99-8	1788 *	7 320	250
Isolated Deposit					
Thorhild-Abee	North Point	C 76-66	1562	96	2.4
Total, Active in 1999				34 769	1 801
Total, Not Active				2 461	46
Grand Total				37 230	1 847

*Active in 1999.

^aA small portion of this mine is within the Magnolia Deposit of the Wabamun Field.

^bAs-received basis.

^cEquilibrium basis.

*Includes production from Mine Numbers 443 and 1782.

Plains Region

Initial Reserves (Mt)	Production (Mt)		Remaining Reserves (Mt)	Rank (ASTM)	Coal Quality					Ref
	1999	Cumulative			Heating Value (MJ/kg)	Moist (%)	Ash (%)	VM (%)	S (%)	
3.3	-	1.4	1.9	sub-C	18.7	23.5 ^d	10.3	29.6	0.4	A
54	1.1	32.5	21	sub-C	18.2	22.9 ^d	11.8	28.7	0.4	A
67	1.7	31.3	36	sub-C	19.3	25.4 ^d	6.6	29.0	0.4	A
8.0	-	0.7	7.0	sub-A/B	20.4	17.4 ^d	15.0	30.3	0.7	G
2.2	-	0.1	2.0	sub-B	20.8	19.8 ^d	10.7	26.6		F
4.5	<0.1	1.1	3.5	sub-C	19.6	26.0 ^c	7.0	28.7	0.3	D
4.5	-	0.2	4.3	sub-C	19.2	23.8 ^d	9.8	28.7	0.3	B
150	3.3 ^a	44.0	106	sub-C	18.7	26.1	6.1	29.3	0.5	A
14	-	2.5	12	sub-C	19.2	25.0 ^c	8.7	29.6	0.6	G
1.1	<0.1	0.8	0.4	sub-C	20.0	25.0 ^c	7.3	28.2	0.5	E
98	2.3	64.7	33	sub-B	17.9	20.3 ^d	15.3	27.4	0.3	A
764	12.4	251.2	513	sub-B	18.9	19.4 ^d	12.7	27.7	0.2	A
176	3.6	29.3	146	sub-B	18.3	19.0 ^c	18.7	26.0	0.2	G
1.6	-	0.4	1.2	sub-C/ lig-A	18.0	33.0 ^c	4.4	30.0	0.3	C
1 315	24.4	318.8	823							
34	-	5.2	28							
1 348	24.4	324.0	852							

Appendix I EUB-Designated Coal Fields in Alberta

Coal Field	Designated Number	Location ^a		
		West of Meridian	Township	Range
Mountain Region				
A La Pêche Lake	CF 210	6	55	6
Bankhead	CF 219	5	26	11
Beaver Creek	CF 190	5	13	4
Beaver Mines	CF 70	5	7	2
Bellevue	CF 40	5	7	3
Blairmore	CF 77	5	7	4
Brule	CF 42	5	50	27
Cadomin-Luscar	CF 234 ^b	5	47	24
Canmore	CF 79	4	24	10
Coleman	CF 204	5	8	4
Costigan	CF 71	5	31	11
Highwood Ford	CF 195	5	17	5
Kakwa River	CF 112	6	59	13
Kananaskis	CF 72	5	18	7
Moberly Creek	CF 73	6	53	2
Mountain Park	CF 235 ^b	5	45	23
Nordegg	CF 50	5	40	15
Oldman River	CF 51	5	12	4
Pocaterra	CF 201	5	21	8
Ram River	CF 117	5	38	12
Savanna Creek	CF 54	5	14	5
Seven Mile Creek	CF 185	5	35	10
Smoky River	CF 227	6	58	9
Southesk River	CF 203	5	43	19
Tent Mountain	CF 56	5	7	6

(continued)

^aThe location given is the one most central to each field.

^bThe designation of this field came into force on May 1, 2000.

Appendix I. EUB-Designated Coal Fields in Alberta (continued)

Coal Field	Designated Number	Location		
		West of Meridian	Township	Range
Foothills Region				
Coalspur	CF 192	5	48	21
Hannington	CF 81	5	56	22
Jarvis Lake	CF 223	5	52	27
McLeod River	CF 199	5	50	22
Morley Hill	CF 228	6	60	8
Obed Mountain	CF 232	5	53	24
Plains Region				
Alix	CF 224	4	40	23
Ardley	CF 225	4	35	23
Barrhead	CF 118	5	60	3
Battle River	CF 236*	4	41	17
Blackfoot	CF 156	4	20	20
Bow Island	CF 120	4	10	10
Brooks	CF 237*	4	18	17
Buffalo Hill	CF 191	4	19	23
Chain Lakes	CF 178	4	33	16
Clear Hills	CF 220	6	89	6
Comrey	CF 88	4	34	7
Cypress Hills	CF 123	4	7	2
Devon	CF 124	4	51	25
Drumheller	CF 193	4	28	17
East Brooks	CF 216	4	19	13
East Edmonton	CF 158	4	52	21
Edmonton	CF 229	4	53	24
Edson River	CF 230	5	55	17
Firebag	CF 194	4	98	6

(continued)

*The designation of this field came into force on May 1, 2000.

Appendix I. EUB-Designated Coal Fields in Alberta (continued)

Coal Field	Designated Number	Location		
		West of Meridian	Township	Range
Plains Region (continued)				
Fox Creek	CF 238*	5	64	20
Garden Plain	CF 149	4	33	14
Grassy Lake	CF 94	4	10	13
Hussar	CF 196	4	23	20
Lesser Slave Lake	CF 131	5	71	4
Lethbridge	CF 213	4	9	22
Lucky Strike	CF 132	4	3	12
Mayerthorpe	CF 222	5	56	8
McGregor Lake	CF 198	4	15	22
Medicine Hat	CF 200	4	10	6
Morinville	CF 168	4	57	26
Musreau Lake	CF 214	6	63	4
Pothole	CF 139	4	7	22
Rolling Hills	CF 148	4	14	13
Rosemary	CF 218	4	21	16
Sawridge Hill	CF 202	5	73	8
Scollard	CF 176	4	36	21
Sheerness	CF 170	4	65	13
Simonette	CF 151	5	65	27
South Swan Hills	CF 233	5	63	10
Strathmore	CF 208	4	26	22
Swan Hills	CF 142	5	67	10
Taber	CF 209	4	10	16
Thorhild-Abee	CF 144	4	60	21
Tofield-Dodds	CF 239*	4	48	18
Wabamun	CF 215	5	52	5
Wetaskiwin	CF 240*	4	47	27
Windfall	CF 231	5	59	14

*The designation of this field came into force on May 1, 2000.

Appendix II Method of Summation of Coal Resources

Established coal resources are determined by first finding the best estimate (BE) for a deposit (i.e., the quantity that is as likely to err on the high as on the low side) and then subtracting twice the deposit standard error (SE) from that estimate.

Totals are arrived at by calculating a new standard error (equal to the square root of the sum of the squares of the individual standard errors) and subtracting twice the new standard error from the sum of the best estimates. An example for the initial in-place quantities, in megatonnes, in the Hussar Field of the Plains Region is given below.

Deposit	BE	SE ²	SE	2 x SE	BE - (2 x SE) (= Initial In-Place)
Chancellor	720	467	22	43	677
Crowfoot Creek	<u>972</u>	<u>242</u>	16	31	941
Total	1 693	709	27	53	1 639

Appendix III Detailed Tables of Established Resources and Reserves

The initial in-place established resources and the initial and remaining reserves of coal in coal fields and deposits in Alberta's three coal regions are given in Tables A.1, A.2, and A.3.

In each table the coal fields are listed alphabetically, with constituent deposits listed generally from north to south. The deposits of the Plains Region coal fields are also identified by map reference numbers that indicate deposit locations within their respective coal fields as shown in Figure 1.1.

Tonnages are given in the form best estimate/standard error/established. The best estimate is that result of a calculation that is as likely to overestimate as underestimate the actual resource. The standard error is a measure of the reliability of the best estimate. An arbitrary standard error has been assigned for Mountain and Foothills resources calculated prior to 1982. The established resource is defined to be the best estimate less two standard errors.

While the cumulative production by actual mining method is shown, the total has been assigned to the mineability category as per the present classification scheme. As a result, some coal actually mined by underground methods has been deducted from the initial in-place surface-mineable resource.

The recovery ratio is the ratio of initial reserves to the initial in-place established resource.

The seam classification indicates whether the coal is potentially surface- or underground-mineable and, if the latter, the thickness type as given on page 5-3.

The number of coal seams shown for each field or deposit is that used for computing the in-place resource, although all of these seams are not necessarily continuous throughout the field or deposit.

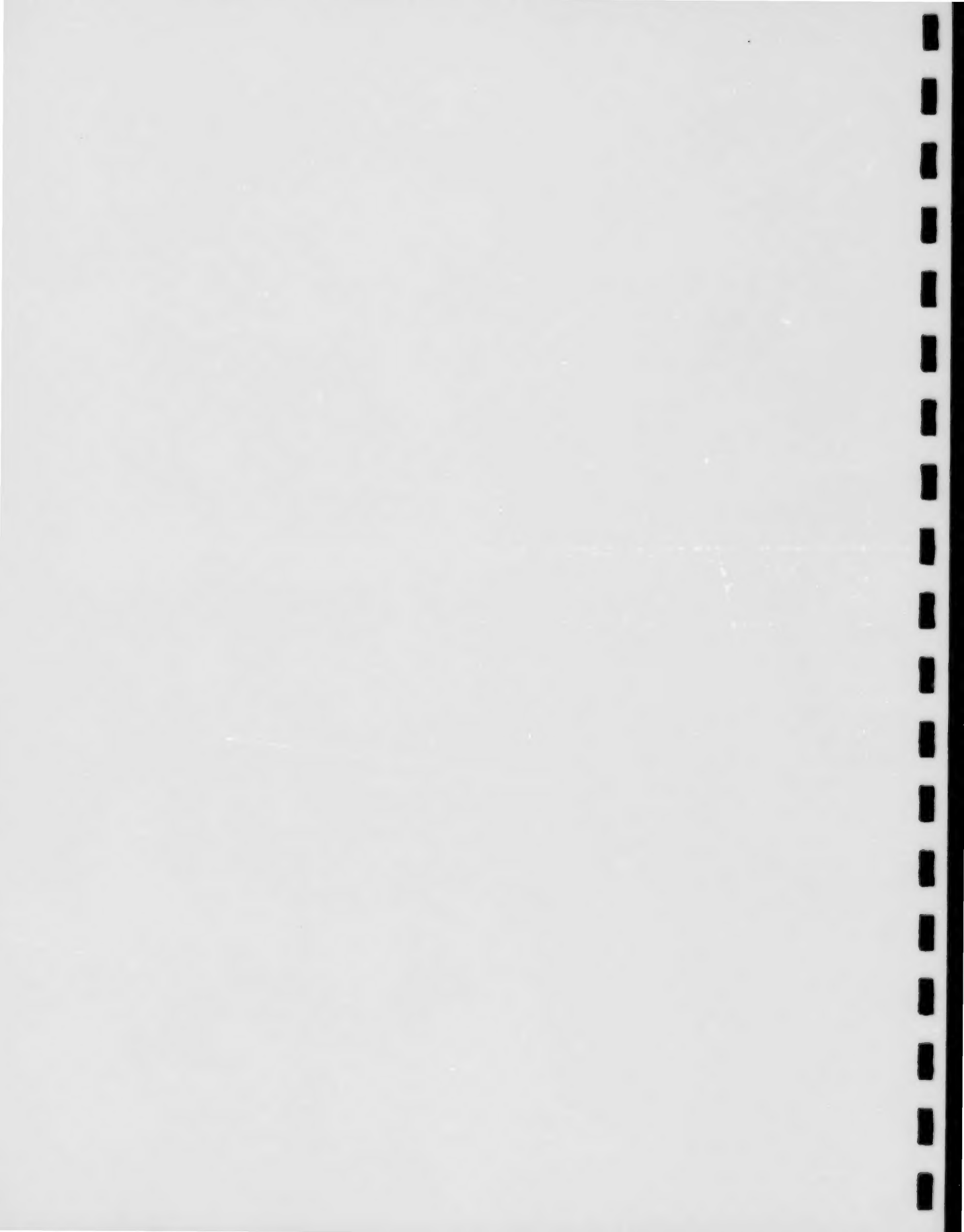
The average dip is for the initial in-place resource, but the range of dips within a single deposit in the Mountain Region may be very large.

Aggregate average thickness, map area, density, and depths all refer to the initial in-place resource.

The estimated "as-mined" heating value of the coal allows for the average mineral matter of the remaining reserves.

Also shown are the land categories established by *A Coal Development Policy for Alberta*. The effect of these categories on the reserves is discussed in Section 8.

The production of abandoned mines outside of deposit boundaries is included under the term "miscellaneous." This production is separated on the basis of known or assumed rank, and the initial in-place resources and initial reserves have been adjusted accordingly.



Tables A.1, A.2, and A.3—Established Resources and Reserves of Coal

Abbreviations Used in Tables A.1, A.2, and A.3

As Mined H V	As-mined heating value
ASTM	American Society for Testing and Materials
Avg	Average
BE	Best estimate
deg	Degrees
Estb	Established
FM	Formation
GP	Group
HIGH VOL BIT	High-volatile bituminous
H-V A	High-volatile bituminous A
H-V B	High-volatile bituminous B
H-V C or HVC	High-volatile bituminous C
Land Catg	Land category
LIG A	Lignite A
L-V or LOW VOL BIT	Low-volatile bituminous
MJ/kg	Megajoules per kilogram
MT.	Mount
MTN.	Mountain
M-V or MED VOL BIT	Medium-volatile bituminous
N	North
No.	Deposit number
Prod	Production
S	South
SA	Semi-anthracite
SE	Standard error
Seam Class	Seam classification
sq km	Square kilometres
SUB A	Subbituminous A
SUB B	Subbituminous B
SUB C	Subbituminous C
Surf	Surface-mineable
t/cubic m	Tonnes per cubic metre
Tot	Total
U G	Underground
U G MED	Underground-mineable, medium
U G THK	Underground-mineable, thick
U G THN	Underground-mineable, thin
Year Calc	Year of most recent calculation

TABLE A-1 Established Resources And Reserves Of Coal In The Mountain Region Of Alberta, Detailed Table
At 31 December 1999

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/ SE/ Estb				BE/ SE/ Estb			Surf UG Tot	BE/ SE/ Estb					
No.	Name	megatonnes					megatonnes									
A LA PECHE LAKE																
1	A LA PECHE LAKE	SURF	58/	4/	50	0.83	49/	3/	42	0.0	0.0	0.0	49/	3/	42	6
		U G MED	3/	1/	1	0.36	1/	0/	0	0.0	0.0	0.0	1/	0/	0	1
			61/	4/	52	0.81	50/	3/	43	0.0	0.0	0.0	50/	3/	43	6
		SURF	58/	4/	50	0.83	49/	3/	42	0.0	0.0	0.0	49/	3/	42	
		U G	3/	1/	1	0.36	1/	0/	0	0.0	0.0	0.0	1/	0/	0	
			61/	4/	52	0.81	50/	3/	43	0.0	0.0	0.0	50/	3/	43	
BANKHEAD																
1	BANKHEAD NORTH	SURF	11/	1/	10	0.14	1/	0/	1	0.0	1.4	1.4	0/	0/	0	8
		U G THN	2/	0/	2	0.15	0/	0/	0	0.0	0.3	0.3	0/	0/	0	3
		U G MED	10/	1/	8	0.15	1/	0/	1	0.0	1.2	1.2	0/	0/	0	5
			23/	1/	22	0.13	3/	0/	3	0.0	2.9	2.9	0/	0/	0	8
2	JOHNSON LAKE	SURF	1/	0/	0	0.30	0/	0/	0	0.0	0.1	0.1	0/	0/	0	5
		U G THN	1/	0/	0	0.25	0/	0/	0	0.0	0.1	0.1	0/	0/	0	3
		U G MED	1/	0/	0	0.29	0/	0/	0	0.0	0.1	0.1	0/	0/	0	2
			2/	0/	2	0.22	0/	0/	0	0.0	0.3	0.3	0/	0/	0	5
		SURF	12/	1/	10	0.15	2/	0/	2	0.0	1.5	1.5	0/	0/	0	
		U G	13/	1/	12	0.15	2/	0/	2	0.0	1.7	1.7	0/	0/	0	
	25/	1/	23	0.14	3/	0/	3	0.0	3.2	3.2	0/	0/	0			
BEAVER CREEK																
1	BEAVER CREEK	SURF	27/	7/	14	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	9/	2/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	48/	12/	24	0.38	18/	5/	9	0.0	0.0	0.0	18/	5/	9	2
		U G THK	55/	14/	28	0.25	14/	3/	7	0.0	0.0	0.0	14/	3/	7	1
			140/	20/	100	0.21	32/	6/	21	0.0	0.0	0.0	32/	6/	21	4
		SURF	27/	7/	14	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
U G	113/	18/	76	0.27	32/	6/	21	0.0	0.0	0.0	32/	6/	21			
	140/	20/	100	0.21	32/	6/	21	0.0	0.0	0.0	32/	6/	21			
BEAVER MINES																
1	NORTHERN END EAST	U G MED	14/	1/	12	0.02	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
			14/	1/	12	0.02	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
2	NORTHERN END WEST	U G MED	8/	0/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			8/	0/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
3	MILL CREEK	U G MED	2/	0/	2	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			2/	0/	2	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
4	SOUTHERN END	U G MED	11/	1/	10	0.39	4/	0/	4	0.0	<0.1	<0.1	4/	0/	4	1
			11/	1/	10	0.39	4/	0/	4	0.0	<0.1	<0.1	4/	0/	4	1
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	35/	1/	33	0.12	5/	0/	4	0.0	0.4	0.4	4/	0/	4	
		35/	1/	33	0.12	5/	0/	4	0.0	0.4	0.4	4/	0/	4		

Mountain Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
50	3.7/	0.21	6.6/	0.2	1.53/	0.02	6- 107		24.5			
50	1.6/	0.20	0.7/	0.2	1.55/	0.04	67- 84		23.7			
50	3.5/	0.19	7.3/	0.3	1.53/	0.02	6- 107	L-V/M-V	24.5	2	1987	
	3.7/	0.21	6.6/	0.2	1.53/	0.02	6- 107		24.5			
	1.6/	0.20	0.7/	0.2	1.55/	0.04	67- 84		23.7			
	3.5/	0.19	7.3/	0.3	1.53/	0.02	6- 107		24.5			
37	10.1/	0.11	0.7/	0.0	1.37/	0.00	2- 285		0.0			
37	2.7/	0.01	0.5/	0.0	1.35/	0.00	20- 560		0.0			
37	10.8/	0.15	0.5/	0.0	1.37/	0.00	45- 530		0.0			
37	11.6/	0.09	1.2/	0.0	1.37/	0.00	2- 560	SAL-V	0.0	1	1989	
45	3.0/	0.05	0.1/	0.0	1.37/	0.00	2- 105		0.0			
45	2.1/	0.01	0.1/	0.0	1.36/	0.00	15- 260		0.0			
45	2.4/	0.04	0.1/	0.0	1.39/	0.01	50- 165		0.0			
45	3.6/	0.03	0.2/	0.0	1.37/	0.00	2- 260	SAL-V	0.0	1	1989	
	9.0/	0.09	0.8/	0.1	1.37/	0.00	2- 285		0.0			
	11.2/	0.12	0.7/	0.0	1.37/	0.00	15- 560		0.0			
	10.1/	0.08	1.4/	0.0	1.37/	0.00	2- 560		0.0			
28	9.6/	1.38	1.9/	0.3	1.32/	0.19			0.0			
28	1.4/	0.20	4.4/	0.6	1.32/	0.19			0.0			
28	5.0/	0.72	6.5/	0.9	1.32/	0.19			27.4			
28	8.2/	1.18	4.5/	0.6	1.32/	0.19			27.4			
28	11.3/	0.44	8.3/	1.0	1.32/	0.09	610	M-V	27.4	2	1974	
	9.6/	1.38	1.9/	0.3	1.32/	0.19			0.0			
	11.7/	1.10	6.5/	0.6	1.32/	0.12			27.4			
	11.3/	0.44	8.3/	1.0	1.32/	0.09	610		27.4			
30	2.4/	0.07	3.7/	0.1	1.31/	0.04	518		0.0			
30	2.4/	0.07	3.7/	0.1	1.31/	0.04	518	H-V A	0.0	1	1976	
30	1.8/	0.05	3.0/	0.1	1.33/	0.04	457		0.0			
30	1.8/	0.05	3.0/	0.1	1.33/	0.04	457	H-V A	0.0	1	1976	
60	1.8/	0.05	0.4/	0.0	1.35/	0.04	610		0.0			
60	1.8/	0.05	0.4/	0.0	1.35/	0.04	610	H-V A	0.0	1	1976	
30	2.4/	0.07	2.9/	0.1	1.36/	0.04	610		26.9			
30	2.4/	0.07	2.9/	0.1	1.36/	0.04	610	H-V A	26.9	2	1976	
	0.0/	0.00	0.0/	0.0	0.00/	0.00			0.0			
	2.2/	0.04	10.1/	0.2	1.33/	0.02	610		26.9			
	2.2/	0.04	10.1/	0.2	1.33/	0.02	610		26.9			

TABLE A-1 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes				megatonnes									
BELLEVUE																
1	MORIN CREEK	SURF	1/	0/	1	0.77	1/	0/	1	0.0	<0.1	<0.1	1/	0/	1	1
		U G MED	17/	1/	15	0.41	7/	0/	6	0.0	0.9	0.9	6/	0/	5	
			18/	1/	16	0.44	8/	0/	7	0.0	0.9	0.9	7/	0/	6	1
2	FRANK	SURF	15/	1/	14	0.11	1/	0/	1	0.0	1.5	1.5	0/	0/	0	3
		U G MED	78/	4/	70	0.11	8/	0/	8	0.0	7.7	7.7	0/	0/	0	2
		U G THK	44/	2/	40	0.11	4/	0/	4	0.0	4.4	4.4	0/	0/	0	1
			137/	5/	128	0.11	14/	0/	14	0.0	13.6	13.6	0/	0/	0	3
3	ROBERTSON PEAK	U G MED	36/	2/	33	0.19	7/	0/	6	0.0	2.4	2.4	5/	0/	4	1
			36/	2/	33	0.19	7/	0/	6	0.0	2.4	2.4	5/	0/	4	1
4	BYRON CREEK NORTH	U G THN	18/	1/	16	0.13	2/	0/	2	0.0	2.2	2.2	0/	0/	0	2
		U G MED	63/	3/	56	0.48	29/	1/	27	0.0	7.5	7.5	22/	1/	20	3
			81/	3/	74	0.39	31/	1/	29	0.0	9.7	9.7	22/	1/	20	5
5	BYRON CREEK SOUTH	U G THN	10/	0/	9	0.02	0/	0/	0	0.0	0.1	0.1	0/	0/	0	2
		U G MED	36/	2/	32	0.39	14/	1/	13	0.0	0.5	0.5	13/	1/	12	3
			46/	2/	42	0.31	14/	1/	13	0.0	0.7	0.7	13/	1/	12	5
		SURF	16/	1/	14	0.15	2/	0/	2	0.0	1.5	1.5	1/	0/	1	
		U G	302/	6/	289	0.24	71/	1/	69	0.0	25.7	25.7	46/	1/	43	
		317/	6/	305	0.23	74/	1/	71	0.0	27.2	27.2	46/	1/	44		
BLAIRMORE																
1	GRASSY MOUNTAIN	SURF	131/	7/	118	0.74	90/	5/	87	1.4	<0.1	1.4	95/	5/	85	6
		U G THN	10/	0/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	30/	2/	27	0.38	11/	1/	10	0.0	0.0	0.0	11/	1/	10	4
		U G THK	63/	3/	57	0.25	16/	1/	14	0.0	0.0	0.0	16/	1/	14	1
			234/	7/	219	0.52	123/	5/	113	1.4	<0.1	1.4	122/	5/	112	6
2	GREENHILL	U G MED	44/	2/	39	0.41	17/	1/	16	0.0	6.4	6.4	11/	1/	10	2
		U G THK	46/	2/	42	0.24	10/	0/	10	0.0	6.7	6.7	4/	0/	3	1
			90/	3/	83	0.32	27/	1/	26	0.0	13.1	13.1	14/	1/	13	3
3	LYONS CREEK	SURF	14/	1/	12	0.52	7/	0/	6	0.0	<0.1	<0.1	7/	0/	6	3
		U G MED	27/	1/	24	0.23	6/	0/	6	0.0	0.2	0.2	6/	0/	6	2
		U G THK	27/	1/	25	0.16	4/	0/	4	0.0	0.2	0.2	4/	0/	4	1
			68/	2/	64	0.26	18/	0/	17	0.0	0.4	0.4	17/	0/	16	3
4	ADANAC LIMB	SURF	68/	5/	58	0.85	58/	5/	49	0.0	0.0	0.0	58/	5/	49	6
		U G THN	2/	1/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	5/	1/	3	0.39	2/	0/	1	0.0	0.0	0.0	2/	0/	1	2
			75/	6/	63	0.79	60/	5/	50	0.0	0.0	0.0	60/	5/	50	

Mountain Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined HV	Land Catg	Year Calc	Remarks
	BE/	SE	BE/	SE	BE/	SE						
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
40	1.7/	0.05	0.3/	0.0	1.35/	0.04			27.2			
40	1.7/	0.05	5.7/	0.2	1.35/	0.04	610		27.2			
40	1.7/	0.05	5.9/	0.2	1.35/	0.04	610	M-V	27.2	4	1976	
25	9.9/	0.29	1.0/	0.0	1.33/	0.04			0.0			
27	5.5/	0.16	9.5/	0.3	1.33/	0.04			0.0			
25	4.4/	0.13	6.9/	0.2	1.33/	0.04			0.0			
26	9.8/	0.19	9.5/	0.2	1.33/	0.03	610	M-V/H-V A	0.0	1&4	1976	CATEGORY 4 - 10%
35	2.6/	0.08	8.5/	0.2	1.35/	0.04	610		27.3			
35	2.6/	0.08	8.5/	0.2	1.35/	0.04	610	H-V A	27.3	1&4	1976	CATEGORY 4 - 45 %
47	2.1/	0.06	4.5/	0.1	1.32/	0.04			0.0			
44	7.6/	0.22	4.4/	0.1	1.32/	0.04			27.3			
45	9.8/	0.23	4.5/	0.1	1.32/	0.03	610	H-V A	27.3	4	1976	
30	2.1/	0.06	3.0/	0.1	1.32/	0.04			0.0			
32	7.6/	0.22	3.1/	0.1	1.32/	0.04			27.9			
31	9.8/	0.24	3.1/	0.1	1.32/	0.03	610	H-V A	27.9	4	1976	
	8.1/	0.22	1.3/	0.0	1.33/	0.04			27.2			
	5.9/	0.07	31.1/	0.4	1.33/	0.02	610		27.5			
	6.2/	0.07	31.4/	0.4	1.33/	0.01	610		27.5			
20	15.5/	0.45	6.0/	0.2	1.32/	0.04			27.0			
33	1.3/	0.04	4.7/	0.1	1.32/	0.04			0.0			
33	4.1/	0.12	4.7/	0.1	1.32/	0.04			27.0			
33	8.5/	0.25	4.7/	0.1	1.32/	0.04			27.0			
26	14.8/	0.25	10.7/	0.2	1.32/	0.02	610	M-V	27.0	4	1976	
40	5.8/	0.17	4.4/	0.1	1.32/	0.04			28.3			
40	6.1/	0.18	4.4/	0.1	1.32/	0.04	610		28.3			
40	11.9/	0.24	4.4/	0.1	1.32/	0.03	610	M-V	28.3	4&1	1976	CATEGORY 4 - 80%
45	11.9/	0.35	0.6/	0.0	1.32/	0.04			28.0			
45	5.8/	0.17	2.5/	0.1	1.32/	0.04			28.0			
45	6.1/	0.18	2.4/	0.1	1.32/	0.04	610		28.0			
45	11.9/	0.20	3.1/	0.1	1.32/	0.02	610	M-V/H-V A	28.0	4&1	1976	CATEGORY 4 - 60%
45	11.0/	0.77	3.0/	0.1	1.47/	0.02	28- 266		26.6			
45	3.0/	0.83	0.4/	0.1	1.50/	0.07	270- 330		0.0			
45	3.3/	0.45	0.7/	0.1	1.47/	0.03	158- 202		26.6			
45	9.8/	0.72	3.7/	0.1	1.47/	0.02	28- 330	M-V/H-V A	26.6	4	1982	

TABLE A-1 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used	
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb		
No.	Name		megatonnes				megatonnes										
BLAIRMORE																	
5	MUTZ LIMB	SURF	29/	4/	22	0.85	25/	3/	19	0.0	0.0	0.0	25/	3/	19	4	
			29/	4/	22	0.85	25/	3/	19	0.0	0.0	0.0	25/	3/	19	4	
		SURF U G	242/	9/	223	0.77	186/	7/	171	1.4	<0.1	1.5	184/	7/	170		
			254/	5/	243	0.26	67/	1/	64	0.0	13.4	13.4	54/	1/	51		
			496/	11/	474	0.50	253/	7/	238	1.4	13.5	14.9	238/	7/	223		
BRULE																	
1	SUPPLY CREEK	U G THN	14/	1/	12	0.03	0/	0/	0	0.0	0.4	0.4	0/	0/	0	2	
		U G MED	41/	2/	37	0.21	9/	0/	8	0.0	1.3	1.3	7/	0/	7	3	
		54/	2/	50	0.17	9/	0/	8	0.0	1.7	1.7	7/	0/	7	5		
2	OLDHOUSE CREEK	U G THN	16/	1/	14	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3	
		16/	1/	14	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3		
3	PRINE CREEK	SURF	3/	0/	3	0.87	3/	0/	3	0.0	0.0	0.0	3/	0/	3	2	
		U G THN	2/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1	
		U G MED	9/	0/	8	0.39	4/	0/	3	0.0	0.0	0.0	4/	0/	3	2	
		14/	1/	13	0.44	6/	0/	6	0.0	0.0	0.0	6/	0/	6	3		
4	WILDHORSE LAKE	U G MED	2/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1	
		2/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1		
		SURF	3/	0/	3	0.85	3/	0/	3	0.0	0.0	0.0	3/	0/	3		
		U G	82/	2/	78	0.15	13/	0/	12	0.0	1.7	1.7	11/	0/	10		
			86/	2/	81	0.18	15/	0/	15	0.0	1.7	1.7	14/	0/	13		
CADOMIN-LUSCAR																	
1	GREGG-DRINNAN	SURF	148/	3/	143	0.74	108/	1/	106	48.8	0.5	49.3	59/	1/	57	2	
		U G THN	5/	1/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1	
		U G MED	14/	1/	12	0.32	5/	1/	4	0.0	0.0	0.0	5/	1/	4	1	
		U G THK	16/	1/	14	0.17	3/	0/	2	0.0	0.0	0.0	3/	0/	2	1	
		183/	3/	177	0.64	116/	1/	114	48.8	0.5	49.3	67/	1/	64	2		
2	LUSCAR	SURF	202/	4/	195	0.42	83/	1/	81	66.7	5.1	71.8	11/	1/	9	3	
		U G THN	12/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2	
		U G MED	7/	1/	5	0.21	2/	0/	1	0.0	0.0	0.0	2/	0/	1	1	
		U G THK	27/	2/	23	0.17	4/	0/	4	0.0	0.8	0.8	4/	0/	3	1	
		248/	4/	240	0.36	89/	1/	87	66.7	5.9	72.6	16/	1/	15	3		
3	CADOMIN WEST	SURF	39/	1/	36	0.52	19/	0/	18	4.9	7.2	12.0	7/	0/	6	1	
		U G THK	8/	0/	8	0.07	1/	0/	1	0.0	0.5	0.5	0/	0/	0	1	
		47/	2/	44	0.43	20/	0/	19	4.9	7.7	12.5	7/	0/	6	1		
4	CADOMIN EAST	SURF	20/	1/	18	0.70	14/	1/	13	1.3	0.0	1.3	13/	1/	11	4	
		U G THK	3/	0/	2	0.78	2/	0/	1	0.0	1.1	1.1	1/	0/	0	4	
		23/	1/	21	0.69	15/	1/	14	1.3	1.1	2.3	13/	1/	12	4		
		SURF	409/	5/	399	0.55	224/	2/	221	121.7	12.7	134.4	89/	2/	86		
		U G	92/	3/	86	0.17	16/	1/	14	0.0	2.4	2.4	14/	1/	12		
			500/	5/	490	0.48	240/	2/	237	121.7	15.1	136.8	103/	2/	100		

Mountain Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
50	10.2/	1.15	1.3/	0.1	1.44/	0.02	60- 259		28.4			
50	10.2/	1.15	1.3/	0.1	1.44/	0.02	60- 259	M-V/H-V A	28.4	4	1982	
	13.1/	0.38	10.9/	0.2	1.38/	0.02	266		27.1			
	12.1/	0.15	12.3/	0.1	1.32/	0.02	610		27.5			
	12.6/	0.20	23.1/	0.2	1.35/	0.01	610		27.2			
10	2.0/	0.06	5.1/	0.1	1.31/	0.04			0.0			
15	5.9/	0.17	5.1/	0.1	1.31/	0.04			27.7			
14	7.9/	0.18	5.1/	0.1	1.31/	0.03	244	L-V	27.7	4&1	1976	CATEGORY 4 - 55%
20	2.4/	0.07	4.6/	0.1	1.32/	0.04	610		0.0			
20	2.4/	0.07	4.6/	0.1	1.32/	0.04	610	L-V	0.0	4	1976	
5	4.9/	0.14	0.5/	0.0	1.33/	0.04			27.7			
5	0.9/	0.03	1.4/	0.0	1.33/	0.04			0.0			
5	4.9/	0.14	1.4/	0.0	1.33/	0.04			27.7			
5	5.8/	0.12	1.9/	0.0	1.33/	0.03	366	L-V	27.7	4	1976	
68	3.2/	0.09	0.1/	0.0	1.32/	0.04	152		0.0			
68	3.2/	0.09	0.1/	0.0	1.32/	0.04	152	L-V	0.0	1	1976	
	4.9/	0.14	0.5/	0.0	1.33/	0.04			27.7			
	5.2/	0.09	11.2/	0.2	1.31/	0.02	610		27.7			
	5.3/	0.08	11.6/	0.2	1.32/	0.02	610		27.7			
41	9.1/	0.13	8.3/	0.1	1.48/	0.01	1- 248		25.6			
41	1.3/	0.07	2.0/	0.1	1.51/	0.06	15- 307		0.0			
41	3.0/	0.08	2.3/	0.1	1.51/	0.05	35- 574		24.9			
41	7.3/	0.13	1.1/	0.1	1.49/	0.01	74- 545		25.9			
41	7.9/	0.09	11.8/	0.1	1.49/	0.01	1- 574	L-V/M-V	25.6	4	1999	MINE #1770 - PRODUCING; DIPS UP TO 90 DEGREES
39	14.1/	0.15	7.4/	0.1	1.50/	0.01	1- 250		25.2			
39	1.5/	0.02	4.1/	0.1	1.49/	0.04	12- 587		0.0			
39	2.3/	0.06	1.5/	0.1	1.49/	0.15	52- 392		25.2			
39	7.9/	0.12	1.8/	0.1	1.48/	0.02	33- 578		25.6			
39	10.7/	0.10	12.0/	0.1	1.50/	0.01	1- 587	L-V/M-V	25.2	4	1999	MINE #1768 - PRODUCING; DIPS UP TO 90 DEGREES
51	14.4/	0.37	1.2/	0.0	1.48/	0.01	1- 250		22.6			
69	9.6/	0.27	0.2/	0.0	1.48/	0.04	30- 525		0.0			
54	13.9/	0.31	1.4/	0.0	1.48/	0.01	1- 525	M-V	22.6	4	1999	DIPS UP TO 90 DEGREES
26	14.0/	0.17	0.9/	0.0	1.45/	0.01	1- 455		27.3			
60	3.8/	0.21	0.3/	0.0	1.41/	0.00	105- 494		28.7			
34	11.5/	0.14	1.1/	0.0	1.44/	0.00	1- 494	M-V	27.3	4	1992	
	11.8/	0.09	17.7/	0.1	1.49/	0.01	1- 455		25.6			
	5.3/	0.04	8.6/	0.2	1.49/	0.02	12- 587		25.5			
	9.6/	0.06	26.3/	0.2	1.49/	0.01	1- 587		25.5			

TABLE A-1 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes				megatonnes									
CANMORE																
1	GEORGETOWN	SURF	1/	0/	1	0.87	1/	0/	1	1.0	0.0	1.0	0/	0/	0	1
		U G THN	70/	3/	63	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	12
		U G MED	156/	8/	140	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	11
		U G THK	36/	2/	33	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			263/	9/	246	0.00	1/	0/	1	1.0	0.2	1.2	0/	0/	0	24
2	CANMORE-WEST WIND	SURF	0/	0/	0	0.67	0/	0/	0	0.2	0.0	0.2	0/	0/	0	1
		U G THN	132/	7/	119	0.03	4/	0/	4	0.0	3.5	3.5	0/	0/	0	10
		U G MED	410/	20/	369	0.03	11/	0/	11	0.0	10.8	10.8	0/	0/	0	11
		U G THK	13/	1/	11	0.03	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
			555/	22/	512	0.03	15/	0/	15	0.2	14.7	14.9	0/	0/	0	22
3	MT. ALLAN	U G THN	6/	0/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	35/	2/	31	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THK	11/	1/	10	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			52/	2/	48	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		SURF	2/	0/	1	0.82	1/	0/	1	1.2	0.0	1.2	0/	0/	0	
	U G	869/	23/	822	0.02	15/	0/	15	0.0	14.8	14.8	0/	0/	0		
		870/	23/	823	0.02	16/	0/	16	1.2	14.8	16.0	0/	0/	0		
COLEMAN																
1	VICARY CREEK	SURF	0/	0/	0	0.72	0/	0/	0	0.2	0.0	0.2	0/	0/	0	1
		U G MED	50/	3/	45	0.44	22/	1/	20	0.0	2.7	2.7	19/	1/	17	1
		U G THK	91/	5/	82	0.21	19/	1/	17	0.0	4.8	4.8	14/	1/	13	1
			142/	5/	131	0.29	41/	1/	39	0.2	7.5	7.7	33/	1/	31	2
2	MCGILLIVRAY	SURF	49/	5/	39	0.89	43/	4/	35	0.0	8.0	8.0	35/	4/	27	6
		U G THN	6/	1/	4	0.38	2/	0/	2	0.0	1.5	1.5	0/	0/	0	2
		U G MED	29/	2/	24	0.65	16/	0/	16	0.0	14.0	14.0	2/	0/	2	1
		U G THK	6/	2/	2	0.59	2/	0/	1	0.0	0.5	0.5	1/	0/	1	1
			89/	5/	78	0.71	62/	3/	56	0.0	24.0	24.0	38/	3/	32	6
3	WILLOUGHBY RIDGE	SURF	72/	3/	66	0.89	63/	3/	58	0.1	0.4	0.5	63/	3/	58	7
		U G MED	2/	0/	1	0.13	0/	0/	0	0.0	0.1	0.1	0/	0/	0	1
		U G THK	15/	3/	9	0.12	2/	0/	1	0.0	0.0	0.0	2/	0/	1	1
			88/	3/	82	0.75	65/	2/	61	0.1	0.5	0.6	65/	2/	61	7
		SURF	121/	5/	110	0.89	106/	5/	97	0.3	8.4	8.7	98/	5/	88	
	U G	198/	7/	184	0.32	62/	1/	60	0.0	23.6	23.6	39/	1/	36		
		319/	8/	302	0.53	169/	4/	160	0.3	32.0	32.3	136/	4/	128		
COSTIGAN																
1	COSTIGAN	SURF	58/	10/	37	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G THN	183/	17/	151	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G MED	38/	4/	30	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			280/	20/	240	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	9
		SURF	58/	10/	37	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
	U G	222/	17/	187	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0		
		280/	20/	240	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0		

Mountain Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	BE/	SE	BE/	SE	BE/	SE	metres	ASTM	MJ/kg			
8	1.2/	0.04	0.8/	0.0	1.32/	0.04			0.0			
8	10.2/	0.30	5.1/	0.1	1.32/	0.04			0.0			
8	22.9/	0.66	5.1/	0.1	1.32/	0.04			0.0			
8	5.3/	0.15	5.1/	0.1	1.32/	0.04	610		0.0			
8	23.3/	0.44	8.5/	0.2	1.32/	0.03	610	SAL-V	0.0	1	1978	DIPS RANGE FROM 0 TO 90 DEGREES
8	1.7/	0.05	0.1/	0.0	1.32/	0.04			0.0			
8	5.2/	0.15	19.2/	0.6	1.32/	0.04			0.0			
8	14.3/	0.41	21.5/	0.6	1.32/	0.04			0.0			
8	5.5/	0.16	1.7/	0.1	1.32/	0.04			0.0			
8	15.2/	0.33	27.3/	0.6	1.32/	0.03	610	SAL-V	0.0	4	1976	
15	1.9/	0.06	2.4/	0.1	1.33/	0.04			0.0			
15	5.8/	0.17	4.3/	0.1	1.33/	0.04			0.0			
15	5.2/	0.15	1.6/	0.0	1.33/	0.04			0.0			
15	8.8/	0.18	4.3/	0.1	1.33/	0.03	305	SAL-V	0.0	4	1976	
	1.3/	0.03	0.9/	0.0	1.32/	0.03			0.0			
	16.6/	0.26	39.2/	0.6	1.32/	0.02	610		0.0			
	16.2/	0.25	40.1/	0.6	1.32/	0.02	610		0.0			
45	1.3/	0.04	0.1/	0.0	1.32/	0.04			0.0			
45	3.0/	0.09	8.9/	0.3	1.32/	0.04			23.7			
45	5.5/	0.16	8.9/	0.3	1.32/	0.04			23.7			
45	8.5/	0.18	8.9/	0.2	1.32/	0.03	457	M-V	23.7	4	1976	
30	8.6/	0.71	3.3/	0.2	1.51/	0.00	1- 229		25.0			
30	1.4/	0.17	2.3/	0.2	1.49/	0.03	27- 520		0.0			
30	2.5/	0.18	6.9/	0.3	1.46/	0.01	34- 590		26.5			
30	5.3/	0.85	0.7/	0.2	1.50/	0.00	102- 341		25.4			
30	4.9/	0.25	10.4/	0.3	1.49/	0.00	1- 590	M-V	25.0	4,2&1	1990	CATEGORY 4 - 80%, CATEGORY 2 - 15%
35	12.5/	0.36	3.3/	0.1	1.44/	0.01	1- 256		25.8			
35	2.6/	0.31	0.3/	0.1	1.47/	0.00	47- 380		27.9			
35	7.9/	0.43	1.1/	0.2	1.40/	0.00	77- 348		27.6			
35	10.9/	0.28	4.6/	0.1	1.43/	0.01	1- 380	M-V	26.2	4&2	1992	95% OF RESERVES IN CATEGORY 4
	10.4/	0.39	6.7/	0.2	1.47/	0.01	256		25.5			
	6.5/	0.13	17.4/	0.4	1.36/	0.02	590		24.1			
	7.5/	0.14	23.9/	0.3	1.40/	0.01	590		25.2			
8	4.7/	0.80	8.1/	0.4	1.54/	0.03	2- 215		0.0			
8	6.6/	0.55	18.7/	0.5	1.46/	0.02	20- 455		0.0			
8	2.4/	0.22	9.9/	0.4	1.58/	0.06	45- 460		0.0			
8	8.6/	0.55	21.6/	0.6	1.49/	0.03	2- 460	L-V	0.0	1	1982	
	4.7/	0.80	8.1/	0.4	1.54/	0.03	2- 215		0.0			
	7.9/	0.56	18.7/	0.5	1.48/	0.02	20- 460		0.0			
	8.6/	0.55	21.6/	0.6	1.49/	0.03	2- 460		0.0			

TABLE A-1 (Continued)

Coal Field		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
Coal Deposit			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name	megatonnes				megatonnes										
HIGHWOOD FORD																
1	HIGHWOOD FORD	U G THN	2/	0/	2	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	38/	2/	34	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	5
		U G THK	37/	2/	34	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	5
			77/	3/	72	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	6
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	77/	3/	72	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			77/	3/	72	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
KAKWA RIVER																
1	STINKING CREEK	SURF	61/	3/	55	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THK	181/	9/	163	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			242/	9/	223	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
2	DEAD HORSE MEADOWS	SURF	33/	2/	29	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	12/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	47/	2/	42	0.20	9/	0/	8	0.0	0.0	0.0	9/	0/	8	3
		U G THK	54/	3/	48	0.13	7/	0/	6	0.0	0.0	0.0	7/	0/	6	2
			145/	4/	137	0.11	16/	1/	15	0.0	0.0	0.0	16/	1/	15	6
3	KAKWA FALLS	U G THN	80/	4/	72	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	104/	5/	93	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G THK	37/	2/	33	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			220/	7/	207	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		SURF	93/	3/	87	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	514/	12/	490	0.03	16/	1/	15	0.0	0.0	0.0	16/	1/	15	
			607/	12/	583	0.03	16/	1/	15	0.0	0.0	0.0	16/	1/	15	
KANANASKIS																
1	STORM CREEK NORTH	U G MED	18/	1/	16	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			18/	1/	16	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
2	STORM CREEK SOUTH	U G THN	10/	0/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	31/	2/	28	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THK	31/	2/	28	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			72/	2/	68	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	90/	2/	85	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			90/	2/	85	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
MOBERLY CREEK																
1	MOBERLY CREEK	SURF	43/	2/	38	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	135/	7/	122	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THK	248/	12/	223	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			426/	14/	398	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		SURF	43/	2/	38	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	384/	14/	355	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			426/	14/	397	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	

Mountain Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
	BE/	SE	BE/	SE	BE/	SE						
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
40	1.2/	0.03	0.9/	0.0	1.32/	0.04			0.0			
40	5.9/	0.17	3.8/	0.1	1.32/	0.04			0.0			
40	7.0/	0.20	3.1/	0.1	1.32/	0.04			0.0			
40	8.8/	0.18	5.1/	0.1	1.32/	0.03	610	L-V	0.0	2	1976	
	0.0/	0.00	0.0/	0.0	0.00/	0.00			0.0			
	8.8/	0.18	5.1/	0.1	1.32/	0.03			0.0			
	8.8/	0.18	5.1/	0.1	1.32/	0.03	610		0.0			
38	15.2/	0.44	2.4/	0.1	1.31/	0.04			0.0			
38	15.2/	0.44	7.2/	0.2	1.31/	0.04			0.0			
38	15.2/	0.35	9.6/	0.2	1.31/	0.03	457	L-V/M-V	0.0	1	1976	
38	10.4/	0.30	1.9/	0.1	1.32/	0.04			0.0			
38	2.1/	0.06	3.4/	0.1	1.32/	0.04			0.0			
38	5.5/	0.16	5.1/	0.1	1.32/	0.04			28.1			
38	6.5/	0.19	4.9/	0.1	1.32/	0.04	457		28.1			
38	9.0/	0.14	9.6/	0.2	1.32/	0.02	457	M-V	28.1	2&1	1976	CATEGORY 2 - 55%
3	4.0/	0.12	15.1/	0.4	1.32/	0.04			0.0			
3	11.9/	0.35	6.6/	0.2	1.32/	0.04			0.0			
3	5.0/	0.14	5.5/	0.2	1.32/	0.04			0.0			
3	7.1/	0.13	23.5/	0.4	1.32/	0.02	305	H-V A	0.0	1	1976	
	13.1/	0.28	4.3/	0.1	1.31/	0.03			0.0			
	9.2/	0.12	38.4/	0.5	1.32/	0.02	457		28.1			
	9.6/	0.11	42.7/	0.5	1.32/	0.02	457		28.1			
40	1.8/	0.05	5.5/	0.2	1.35/	0.04	457		0.0			
40	1.8/	0.05	5.5/	0.2	1.35/	0.04	457	L-V	0.0	2&1	1976	CATEGORY 2 - 60%
55	1.2/	0.04	3.4/	0.1	1.32/	0.04	488		0.0			
55	4.0/	0.12	3.4/	0.1	1.32/	0.04	488		0.0			
55	4.0/	0.12	3.4/	0.1	1.32/	0.04	488		0.0			
55	9.1/	0.16	3.4/	0.1	1.32/	0.02	488	L-V	0.0	2	1976	
	0.0/	0.00	0.0/	0.0	0.00/	0.00			0.0			
	5.2/	0.08	9.0/	0.1	1.33/	0.02	488		0.0			
	5.1/	0.08	9.0/	0.1	1.33/	0.02	488		0.0			
40	10.4/	0.30	2.4/	0.1	1.32/	0.04			0.0			
40	3.7/	0.11	21.4/	0.6	1.32/	0.04			0.0			
40	6.7/	0.19	21.4/	0.6	1.32/	0.04			0.0			
40	10.4/	0.20	23.8/	0.5	1.32/	0.03	610	L-V/M-V	0.0	1	1976	
	10.4/	0.30	2.4/	0.1	1.32/	0.04			0.0			
	10.4/	0.22	21.4/	0.5	1.32/	0.03			0.0			
	10.4/	0.20	23.8/	0.5	1.32/	0.03	610		0.0			

TABLE A-1 (Continued)

Coal Field		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
Coal Deposit			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name	megatonnes					megatonnes									
MOUNTAIN PARK																
1	PROSPECT CREEK	SURF	15/	1/	14	0.79	12/	0/	11	0.0	<0.1	<0.1	12/	0/	11	2
		U G THN	6/	0/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	2/	0/	1	0.38	1/	0/	1	0.0	0.0	0.0	1/	0/	1	1
		U G THK	5/	0/	4	0.20	1/	0/	1	0.0	<0.1	<0.1	1/	0/	1	1
			27/	1/	26	0.49	13/	0/	13	0.0	<0.1	<0.1	13/	0/	13	2
2	THORNTON CREEK	SURF	60/	1/	58	0.72	43/	1/	42	1.0	0.9	1.9	41/	1/	40	6
		U G THN	4/	0/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	4/	0/	4	0.34	1/	0/	1	0.0	0.4	0.4	1/	0/	1	1
		U G THK	6/	0/	6	0.02	5/	0/	5	0.0	4.1	4.1	0/	0/	0	1
			75/	1/	73	0.66	49/	1/	48	1.0	5.4	6.4	43/	1/	42	6
3	HARRIS CREEK	SURF	37/	1/	35	0.74	28/	1/	26	0.0	0.0	0.0	28/	1/	26	3
		U G THN	11/	0/	10	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	4/	0/	3	0.37	1/	0/	1	0.0	0.0	0.0	1/	0/	1	1
		U G THK	12/	1/	10	0.26	3/	0/	3	0.0	0.0	0.0	3/	0/	3	1
			64/	1/	62	0.50	33/	1/	31	0.0	0.0	0.0	33/	1/	31	3
4	MACKENZIE CREEK	SURF	50/	2/	46	0.89	44/	2/	41	0.0	0.0	0.0	44/	2/	41	3
		U G THN	2/	0/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	2/	0/	1	0.38	1/	0/	0	0.0	0.0	0.0	1/	0/	0	1
		U G THK	9/	1/	7	0.21	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
			62/	2/	57	0.76	47/	2/	44	0.0	0.0	0.0	47/	2/	44	3
5	REDCAP CREEK	SURF	21/	1/	18	0.78	16/	1/	14	0.0	0.0	0.0	16/	1/	14	3
		U G THN	3/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	2/	0/	2	0.37	1/	0/	1	0.0	0.0	0.0	1/	0/	1	1
		U G THK	1/	0/	1	0.33	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			27/	1/	24	0.65	17/	1/	16	0.0	0.0	0.0	17/	1/	16	3
		SURF	183/	3/	177	0.78	144/	3/	139	1.0	0.9	1.9	142/	3/	137	
		U G	72/	2/	69	0.22	16/	0/	15	0.0	4.5	4.5	11/	0/	11	
			255/	3/	249	0.62	160/	2/	155	1.0	5.4	6.4	153/	2/	149	
NORDEGG																
1	NORDEGG	SURF	36/	2/	32	0.04	1/	0/	1	0.3	0.9	1.2	0/	0/	0	7
		U G THN	8/	0/	7	0.04	0/	0/	0	0.0	0.3	0.3	0/	0/	0	2
		U G MED	242/	12/	217	0.36	85/	4/	77	0.0	8.1	8.1	77/	4/	69	7
			285/	12/	261	0.30	87/	4/	79	0.3	9.3	9.6	77/	4/	69	7
		SURF	36/	2/	32	0.04	1/	0/	1	0.3	0.9	1.2	0/	0/	0	
		U G	250/	12/	225	0.34	85/	4/	78	0.0	8.4	8.4	77/	4/	69	
			285/	12/	261	0.30	87/	4/	79	0.3	9.3	9.6	77/	4/	69	

Mountain Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
34	6.7/	0.19	1.4/	0.0	1.32/	0.01	2- 229		28.8			
34	1.8/	0.09	2.2/	0.1	1.32/	0.01	20- 386		0.0			
34	2.2/	0.15	0.5/	0.0	1.32/	0.03	31- 335		28.8			
34	5.9/	0.16	0.5/	0.0	1.32/	0.01	74- 271		29.1			
34	5.0/	0.10	3.4/	0.1	1.32/	0.01	2- 386	M-V/H-V A	28.8	4	1999	
31	11.3/	0.15	3.4/	0.0	1.35/	0.01	1- 233		27.4			
31	1.2/	0.04	2.2/	0.1	1.34/	0.02	11- 364		0.0			
31	2.8/	0.06	1.0/	0.1	1.34/	0.03	32- 309		25.7			
31	6.6/	0.12	0.6/	0.0	1.36/	0.00	93- 279		25.7			
31	8.3/	0.08	5.7/	0.0	1.34/	0.01	1- 364	M-V/H-V A	27.4	4	1999	MINE #1808 - UNDEVELOPED
22	9.8/	0.23	2.6/	0.0	1.34/	0.01	1- 209		28.1			
22	2.0/	0.04	3.8/	0.1	1.33/	0.02	14- 446		0.0			
22	2.4/	0.06	1.1/	0.1	1.32/	0.00	30- 304		29.1			
22	5.8/	0.18	1.4/	0.1	1.33/	0.00	76- 357		28.5			
22	6.6/	0.10	6.8/	0.1	1.33/	0.01	1- 446	M-V/H-V A	28.1	4	1999	NEW DEPOSIT
31	9.5/	0.37	3.3/	0.0	1.35/	0.00	1- 247		27.8			
31	0.8/	0.02	1.2/	0.1	1.35/	0.02	16- 585		0.0			
31	2.0/	0.10	0.5/	0.1	1.33/	0.03	28- 312		28.4			
31	6.6/	0.39	0.9/	0.1	1.36/	0.00	96- 326		27.1			
31	8.4/	0.28	4.7/	0.1	1.35/	0.00	1- 585	M-V/H-V A	27.8	4	1999	NEW DEPOSIT
30	9.8/	0.48	1.4/	0.0	1.33/	0.01	1- 234		28.5			
30	2.5/	0.10	0.7/	0.1	1.33/	0.04	25- 217		0.0			
30	2.9/	0.18	0.5/	0.1	1.32/	0.01	29- 234		29.1			
30	7.0/	0.03	0.1/	0.0	1.33/	0.00	72- 197		28.4			
30	7.4/	0.28	2.4/	0.0	1.33/	0.01	1- 234	M-V	28.5	4	1999	NEW DEPOSIT
	9.8/	0.13	12.1/	0.1	1.34/	0.00	1- 247		27.9			
	4.3/	0.05	11.0/	0.2	1.33/	0.00	11- 585		28.1			
	7.2/	0.08	23.0/	0.1	1.34/	0.00	1- 585		27.9			
16	15.8/	0.46	1.7/	0.0	1.30/	0.04			0.0			
16	2.0/	0.06	3.0/	0.1	1.30/	0.04			0.0			
16	15.8/	0.46	11.3/	0.3	1.30/	0.04			28.4			
16	14.2/	0.41	14.8/	0.4	1.30/	0.02	579	L-V/M-V	28.4	2	1976	
	15.8/	0.46	1.7/	0.0	1.30/	0.04			0.0			
	14.0/	0.39	13.2/	0.4	1.30/	0.04			28.4			
	14.2/	0.41	14.8/	0.4	1.30/	0.02	579		28.4			

TABLE A-1 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
OLDMAN RIVER																
1	OLDMAN RIVER	SURF	203/	10/	182	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	86/	4/	77	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	145/	7/	130	0.38	55/	3/	49	0.0	0.0	0.0	55/	3/	49	4
		U G THK	207/	10/	186	0.25	52/	3/	47	0.0	0.0	0.0	52/	3/	47	2
			640/	17/	607	0.16	107/	4/	99	0.0	0.0	0.0	107/	4/	99	8
		SURF	203/	10/	182	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	436/	13/	411	0.24	107/	4/	99	0.0	0.0	0.0	107/	4/	99	
			640/	17/	607	0.16	107/	4/	99	0.0	0.0	0.0	107/	4/	99	
POCATERRA																
1	POCATERRA	U G THN	8/	0/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	28/	1/	25	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THK	95/	5/	86	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			132/	5/	122	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	132/	5/	122	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		132/	5/	122	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0		
RAM RIVER																
1	RAM NORTH	SURF	74/	4/	66	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G THN	104/	5/	93	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	160/	6/	147	0.38	61/	2/	56	0.0	0.0	0.0	61/	2/	56	2
		U G THK	26/	3/	19	0.27	7/	1/	5	0.0	0.0	0.0	7/	1/	5	1
			363/	13/	337	0.19	68/	3/	63	0.0	<0.1	<0.1	68/	3/	63	4
2	FALL CREEK EAST	SURF	32/	2/	27	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	33/	3/	27	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	16/	2/	13	0.37	6/	1/	5	0.0	0.0	0.0	6/	1/	5	2
			81/	5/	72	0.07	6/	1/	5	0.0	0.0	0.0	6/	1/	5	5
3	FALL CREEK WEST	U G MED	53/	3/	48	0.38	20/	1/	18	0.0	0.0	0.0	20/	1/	18	3
			53/	3/	48	0.38	20/	1/	18	0.0	0.0	0.0	20/	1/	18	3
		SURF	106/	5/	97	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
		U G	392/	10/	372	0.24	94/	3/	88	0.0	0.0	0.0	94/	3/	88	
			497/	14/	468	0.19	94/	3/	88	0.0	<0.1	<0.1	94/	3/	88	
SAVANNA CREEK																
1	PASQUE MTN. NORTH	U G MED	11/	1/	10	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THK	45/	2/	41	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			56/	2/	52	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
2	PASQUE MTN. SOUTH	SURF	13/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G THN	5/	0/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	18/	1/	15	0.19	3/	0/	3	0.0	0.0	0.0	3/	0/	3	2
		U G THK	38/	2/	34	0.12	5/	0/	4	0.0	0.0	0.0	5/	0/	4	2
			72/	2/	67	0.11	8/	0/	7	0.0	0.0	0.0	8/	0/	7	6

Mountain Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
38	12.3/ 0.36	9.9/ 0.3	1.31/ 0.04			0.0			
37	4.6/ 0.13	11.3/ 0.3	1.31/ 0.04			0.0			
38	5.8/ 0.17	15.1/ 0.4	1.31/ 0.04			27.2			
38	9.0/ 0.26	13.9/ 0.4	1.31/ 0.04			27.2			
38	12.3/ 0.18	31.3/ 0.5	1.31/ 0.02	610	M-V	27.2	2	1976	
	12.3/ 0.36	9.9/ 0.3	1.31/ 0.04			0.0			
	12.3/ 0.22	21.4/ 0.4	1.31/ 0.02			27.2			
	12.3/ 0.18	31.3/ 0.5	1.31/ 0.02	610		27.2			
55	1.2/ 0.03	3.0/ 0.1	1.33/ 0.04			0.0			
55	4.0/ 0.12	3.0/ 0.1	1.33/ 0.04			0.0			
55	13.9/ 0.40	3.0/ 0.1	1.33/ 0.04			0.0			
55	19.0/ 0.42	3.0/ 0.1	1.33/ 0.03	610	L-V	0.0	1	1976	
	0.0/ 0.00	0.0/ 0.0	0.00/ 0.00			0.0			
	19.0/ 0.42	3.0/ 0.1	1.33/ 0.03			0.0			
	19.0/ 0.42	3.0/ 0.1	1.33/ 0.03	610		0.0			
12	2.7/ 0.13	19.2/ 0.4	1.42/ 0.03	3- 59		0.0			
11	2.0/ 0.08	35.3/ 0.7	1.47/ 0.02	61- 302		0.0			
12	3.2/ 0.10	34.3/ 0.7	1.42/ 0.03	60- 312		28.6			
13	5.0/ 0.52	3.5/ 0.2	1.41/ 0.05	66- 247		29.0			
12	5.1/ 0.13	48.4/ 1.0	1.44/ 0.02	3- 312	M-V	28.6	2	1984	
10	3.8/ 0.23	5.4/ 0.2	1.54/ 0.04	3- 75		0.0			
11	3.3/ 0.29	6.3/ 0.2	1.59/ 0.04	23- 277		0.0			
11	2.5/ 0.20	4.1/ 0.1	1.52/ 0.06	58- 205		28.1			
11	5.4/ 0.25	9.5/ 0.2	1.55/ 0.03	3- 277	M-V/H-V A	28.1	2	1984	
15	4.6/ 0.13	7.7/ 0.2	1.45/ 0.04	244		28.8			
15	4.6/ 0.13	7.7/ 0.2	1.45/ 0.04	244	M-V	28.8	2	1976	
	2.9/ 0.11	24.7/ 0.4	1.46/ 0.02	3- 75		0.0			
	5.4/ 0.11	49.3/ 0.6	1.46/ 0.01	312		28.6			
	5.1/ 0.11	65.6/ 1.0	1.46/ 0.02	312		28.6			
60	2.4/ 0.07	1.7/ 0.1	1.32/ 0.04			0.0			
60	10.2/ 0.30	1.7/ 0.0	1.32/ 0.04			0.0			
60	12.6/ 0.30	1.7/ 0.0	1.32/ 0.03	610	L-V/M-V	0.0	2	1976	
52	13.7/ 0.40	0.4/ 0.0	1.31/ 0.04			0.0			
53	1.2/ 0.04	1.9/ 0.1	1.31/ 0.04			0.0			
52	4.0/ 0.12	1.9/ 0.1	1.31/ 0.04			27.5			
53	9.1/ 0.26	1.9/ 0.1	1.31/ 0.04			27.5			
52	14.0/ 0.25	2.4/ 0.0	1.31/ 0.02	610	L-V/M-V	27.5	2	1976	

TABLE A-1 (Continued)

Coal Field		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
Coal Deposit			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name	megatonnes					megatonnes									
SAVANNA CREEK																
3	WILKINSON CREEK	U G THN	14/	1/	13	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	23/	1/	21	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			37/	1/	35	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		SURF	13/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	152/	3/	145	0.05	8/	0/	7	0.0	0.0	0.0	8/	0/	7	
		165/	4/	158	0.05	8/	0/	7	0.0	0.0	0.0	8/	0/	7		
SEVEN MILE CREEK																
1	SEVEN MILE CREEK	SURF	5/	0/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	13/	1/	11	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	101/	5/	91	0.38	38/	2/	34	0.0	0.0	0.0	38/	2/	34	3
			118/	5/	108	0.32	38/	2/	34	0.0	0.0	0.0	38/	2/	34	4
		SURF	5/	0/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	113/	5/	103	0.33	38/	2/	34	0.0	0.0	0.0	38/	2/	34	
		118/	5/	108	0.32	38/	2/	34	0.0	0.0	0.0	38/	2/	34		
SMOKY RIVER																
1	CAW CREEK	SURF	100/	2/	97	0.83	83/	1/	80	15.2	<0.1	15.2	67/	1/	65	4
		U G THN	15/	0/	14	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	27/	1/	26	0.36	10/	0/	9	0.0	0.0	0.0	10/	0/	9	1
		U G THK	84/	2/	81	0.21	17/	0/	17	0.0	0.0	0.0	17/	0/	17	1
			226/	2/	221	0.49	110/	1/	107	15.2	<0.1	15.2	94/	1/	92	4
2	GRIZZLY CREEK	SURF	29/	1/	27	0.82	24/	1/	22	0.0	0.0	0.0	24/	1/	22	2
		U G THN	7/	1/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	12/	1/	10	0.37	5/	0/	4	0.0	0.0	0.0	5/	0/	4	1
		U G THK	22/	2/	18	0.31	7/	0/	6	0.0	0.0	0.0	7/	0/	6	1
			70/	2/	66	0.50	35/	1/	33	0.0	0.0	0.0	35/	1/	33	2
3	NO. 12 MINE	SURF	21/	1/	20	0.57	12/	0/	11	6.4	0.0	6.4	5/	0/	5	1
		U G THN	2/	0/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THK	7/	1/	6	0.22	2/	0/	1	0.0	0.0	0.0	2/	0/	1	1
			30/	1/	29	0.45	13/	0/	13	6.4	0.0	6.4	7/	0/	6	3
4	SHEEP-BEAVERDAM	SURF	69/	1/	67	0.47	32/	0/	31	16.6	2.0	20.6	11/	0/	11	3
		U G MED	44/	1/	42	0.10	4/	0/	4	0.0	1.8	1.8	2/	0/	2	2
		U G THK	81/	2/	77	0.18	14/	0/	14	0.0	11.8	11.8	2/	0/	2	1
			195/	2/	190	0.26	50/	0/	50	16.6	15.6	34.2	16/	0/	15	3
5	SMOKY-SHEEP	SURF	11/	1/	10	0.91	10/	0/	9	4.5	0.0	4.5	5/	0/	5	1
		U G MED	42/	2/	38	0.44	18/	1/	17	0.0	3.4	3.4	15/	1/	13	2
		U G THK	101/	5/	91	0.26	25/	1/	24	0.0	7.7	7.7	18/	1/	16	1
			154/	6/	143	0.35	53/	1/	51	4.5	11.1	15.6	37/	1/	35	3
6	NO. 5 MINE	U G THN	22/	0/	21	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	13/	1/	12	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THK	48/	2/	45	0.09	4/	0/	4	0.0	3.8	3.8	0/	0/	0	1
			84/	2/	81	0.05	4/	0/	4	0.0	3.8	3.8	0/	0/	0	4

Mountain Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
	BE/	SE	BE/	SE	BE/	SE						
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
45	3.7/	0.11	2.1/	0.1	1.33/	0.04			0.0			
45	5.8/	0.17	2.1/	0.1	1.33/	0.04			0.0			
45	9.4/	0.20	2.1/	0.0	1.33/	0.03	396	L-V/M-V	0.0	2	1976	
	13.7/	0.40	0.4/	0.0	1.31/	0.04			0.0			
	12.1/	0.16	5.8/	0.1	1.32/	0.02			27.5			
	12.2/	0.15	6.2/	0.1	1.32/	0.02	610		27.5			
20	4.0/	0.12	0.8/	0.0	1.30/	0.04			0.0			
20	1.2/	0.03	7.6/	0.2	1.30/	0.04			0.0			
20	5.8/	0.17	12.5/	0.4	1.30/	0.04			28.2			
20	5.9/	0.15	14.5/	0.4	1.30/	0.03	305	M-V	28.2	2	1976	
	4.0/	0.12	0.8/	0.0	1.30/	0.04			0.0			
	6.0/	0.16	13.7/	0.4	1.30/	0.03			28.2			
	5.9/	0.15	14.5/	0.4	1.30/	0.03	305		28.2			
13	11.0/	0.14	6.1/	0.1	1.45/	0.00	1- 240		28.3			
13	1.8/	0.03	5.4/	0.1	1.48/	0.02	6- 590		0.0			
13	2.8/	0.04	6.3/	0.1	1.45/	0.00	21- 592		29.1			
13	8.6/	0.13	6.7/	0.1	1.43/	0.00	55- 600		29.8			
13	12.3/	0.10	12.4/	0.1	1.45/	0.00	1- 600	L-V	28.7	4	1999	MINE #1774 - PRODUCING
50	6.7/	0.25	1.9/	0.1	1.44/	0.01	1- 166		28.6			
50	1.7/	0.08	1.8/	0.1	1.45/	0.01	12- 423		0.0			
50	2.8/	0.21	1.9/	0.1	1.49/	0.01	44- 403		26.5			
50	4.4/	0.21	2.2/	0.1	1.43/	0.02	76- 513		29.4			
50	7.5/	0.19	4.1/	0.1	1.45/	0.01	1- 513	L-V	28.3	4	1999	
50	6.6/	0.18	1.4/	0.0	1.42/	0.00	1- 175		29.4			
50	1.4/	0.04	0.8/	0.1	1.45/	0.01	23- 385		0.0			
50	5.6/	0.18	0.6/	0.0	1.41/	0.00	75- 303		30.4			
50	6.8/	0.15	2.0/	0.0	1.42/	0.00	1- 385	L-V	29.7	4	1999	
20	8.7/	0.13	5.2/	0.1	1.45/	0.00	1- 150		28.9			
20	4.5/	0.09	6.3/	0.1	1.46/	0.00	33- 359		28.6			
20	7.2/	0.15	7.3/	0.1	1.43/	0.00	72- 425		30.0			
20	10.9/	0.12	11.6/	0.1	1.44/	0.00	1- 425	L-V	28.9	4	1999	
53	5.3/	0.15	0.9/	0.0	1.35/	0.04			25.3			
53	4.3/	0.12	4.4/	0.1	1.35/	0.04			25.3			
53	5.3/	0.15	8.5/	0.2	1.35/	0.04			25.3			
53	7.5/	0.16	9.1/	0.2	1.35/	0.03	610	L-V	25.3	4	1976	
13	4.2/	0.08	3.6/	0.0	1.47/	0.00	27- 550		0.0			
13	2.9/	0.09	3.0/	0.1	1.44/	0.01	25- 563		0.0			
13	6.5/	0.18	5.1/	0.1	1.43/	0.01	15- 600		29.9			
13	10.0/	0.17	5.6/	0.1	1.44/	0.00	15- 600	L-V	29.9	4	1999	MINE #1765 - PRODUCING

TABLE A-1 (Continued)

Coal Field		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
Coal Deposit			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name	megatonnes					megatonnes									
SMOKY RIVER																
7	MT. HAMELL NORTH	SURF	29/	1/	26	0.88	26/	1/	23	0.0	0.0	0.0	26/	1/	23	2
		U G THN	7/	0/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	6/	1/	5	0.37	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
		U G THK	11/	1/	9	0.32	3/	0/	3	0.0	0.0	0.0	3/	0/	3	1
			52/	2/	49	0.59	31/	1/	29	0.0	0.0	0.0	31/	1/	29	2
8	MT. HAMELL SOUTH	U G THN	15/	1/	13	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	53/	3/	48	0.38	20/	1/	18	0.0	<0.1	<0.1	20/	1/	18	4
			68/	3/	62	0.29	20/	1/	18	0.0	<0.1	<0.1	20/	1/	18	6
9	GRANDE MOUNTAIN	U G THN	36/	1/	35	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	40/	1/	38	0.37	15/	0/	14	0.0	0.0	0.0	15/	0/	14	2
		U G THK	10/	1/	9	0.37	4/	0/	3	0.0	0.0	0.0	4/	0/	3	1
			67/	1/	64	0.22	19/	0/	18	0.0	0.0	0.0	19/	0/	18	6
		SURF	260/	3/	254	0.71	186/	2/	181	44.7	2.1	46.8	139/	2/	134	
	U G	706/	8/	691	0.21	150/	2/	146	0.0	28.4	28.4	121/	2/	118		
		966/	8/	950	0.35	335/	2/	331	44.7	30.6	75.3	260/	2/	256		
SOUTHESK RIVER																
1	SOUTHESK RIVER	SURF	11/	1/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	18/	1/	15	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	28/	2/	25	0.34	10/	1/	9	0.0	0.0	0.0	10/	1/	9	2
		U G THK	8/	1/	7	0.31	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
			65/	3/	58	0.19	12/	1/	11	0.0	0.0	0.0	12/	1/	11	4
		SURF	11/	1/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	54/	2/	50	0.22	12/	1/	11	0.0	0.0	0.0	12/	1/	11	
			65/	3/	58	0.19	12/	1/	11	0.0	0.0	0.0	12/	1/	11	
TENT MOUNTAIN																
1	TENT MOUNTAIN	SURF	22/	1/	20	0.92	19/	1/	18	8.2	<0.1	8.2	11/	1/	10	5
		U G THK	78/	4/	70	0.25	19/	1/	17	0.0	0.0	0.0	19/	1/	17	5
			100/	4/	92	0.40	39/	1/	37	8.2	<0.1	8.2	31/	1/	29	5
		SURF	22/	1/	20	0.92	19/	1/	18	8.2	<0.1	8.2	11/	1/	10	
		U G	78/	4/	70	0.25	19/	1/	17	0.0	0.0	0.0	19/	1/	17	
		100/	4/	92	0.40	39/	1/	37	8.2	<0.1	8.2	31/	1/	28		
ISOLATED DEPOSITS																
1	FLAT CREEK	U G THN	9/	0/	8	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	9
		U G MED	16/	1/	14	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
			25/	1/	23	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	12
2	POCAHONTAS	SURF	2/	0/	2	0.05	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	15/	1/	14	0.05	1/	0/	1	0.0	0.7	0.7	0/	0/	0	1
			17/	1/	15	0.05	1/	0/	1	0.0	0.8	0.8	0/	0/	0	1
3	RIBBON CREEK	U G MED	7/	0/	6	0.01	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G THK	18/	1/	16	0.01	0/	0/	0	0.0	0.2	0.2	0/	0/	0	1
			25/	1/	23	0.01	0/	0/	0	0.0	0.2	0.2	0/	0/	0	2

Mountain Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
5	6.7/ 0.25	3.0/ 0.1	1.42/ 0.01	1- 249		29.6			
5	2.4/ 0.10	2.0/ 0.1	1.43/ 0.01	27- 314		0.0			
5	2.3/ 0.16	1.8/ 0.1	1.44/ 0.01	46- 307		28.5			
5	4.6/ 0.34	1.6/ 0.1	1.40/ 0.01	97- 282		31.0			
5	6.8/ 0.17	5.4/ 0.1	1.42/ 0.00	1- 314	L-V	29.6	4	1997	
45	2.2/ 0.06	3.2/ 0.1	1.45/ 0.04			0.0			
45	8.2/ 0.24	3.2/ 0.1	1.45/ 0.04			26.0			
45	10.4/ 0.24	3.2/ 0.1	1.45/ 0.03	558	L-V	26.0	4	1976	
13	4.8/ 0.10	5.3/ 0.1	1.43/ 0.00	3- 416		0.0			
13	5.4/ 0.06	5.1/ 0.1	1.41/ 0.00	2- 455		30.3			
13	4.0/ 0.04	1.8/ 0.1	1.41/ 0.00	3- 479		30.3			
13	10.9/ 0.11	5.5/ 0.1	1.42/ 0.00	2- 479	L-V	30.3	4	1999	
	8.3/ 0.08	18.6/ 0.1	1.44/ 0.00	249		28.6			
	9.6/ 0.07	42.2/ 0.3	1.42/ 0.01	600		27.8			
	9.5/ 0.05	58.9/ 0.3	1.43/ 0.01	610		28.2			
22	4.2/ 0.27	1.7/ 0.1	1.42/ 0.03	7- 75		0.0			
24	1.7/ 0.11	6.5/ 0.1	1.46/ 0.03	20- 292		0.0			
25	3.5/ 0.17	5.1/ 0.1	1.43/ 0.03	45- 312		27.9			
22	4.3/ 0.27	1.2/ 0.1	1.43/ 0.04	62- 233		27.9			
24	5.3/ 0.23	7.8/ 0.2	1.44/ 0.02	7- 312	M-V	27.9	2	1984	
	4.2/ 0.27	1.7/ 0.1	1.42/ 0.03	7- 75		0.0			
	5.3/ 0.18	6.5/ 0.1	1.44/ 0.02	20- 312		27.9			
	5.3/ 0.23	7.8/ 0.2	1.44/ 0.02	7- 312		27.9			
50	15.2/ 0.44	0.7/ 0.0	1.40/ 0.04			28.4			
50	15.2/ 0.44	2.3/ 0.1	1.40/ 0.04	610		28.4			
50	15.2/ 0.35	3.0/ 0.1	1.40/ 0.03	610	M-V	28.4	4	1979	MINE #1695 - NOT PRODUCING
	15.2/ 0.44	0.7/ 0.0	1.40/ 0.04			28.4			
	15.2/ 0.44	2.3/ 0.1	1.40/ 0.04	610		28.4			
	15.2/ 0.35	3.0/ 0.1	1.40/ 0.03	610		28.4			
43	3.5/ 0.10	1.4/ 0.0	1.35/ 0.04	5- 610		0.0			
40	6.6/ 0.19	1.4/ 0.0	1.35/ 0.04	5- 610		0.0			
40	10.1/ 0.21	1.4/ 0.0	1.35/ 0.03	5- 610	L-V	0.0	2	1980	KOOTENAY GP
53	2.1/ 0.06	0.4/ 0.0	1.35/ 0.04			0.0			
54	2.1/ 0.06	3.1/ 0.1	1.35/ 0.04			0.0			
54	2.1/ 0.05	3.5/ 0.1	1.35/ 0.04	610	L-V	0.0	1	1976	LUSCAR GP
30	1.8/ 0.05	2.4/ 0.1	1.35/ 0.04			0.0			
30	4.6/ 0.13	2.5/ 0.1	1.35/ 0.04			0.0			
30	6.4/ 0.14	2.5/ 0.1	1.35/ 0.03	610	L-V	0.0	1	1976	KOOTENAY GP

TABLE A-1 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes				megatonnes									
ISOLATED DEPOSITS																
4	SUSA CREEK	SURF	8/	0/	8	0.84	7/	0/	6	0.0	0.0	0.0	7/	0/	6	1
		U G THN	3/	0/	3	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	9/	0/	9	0.38	4/	0/	3	0.0	0.0	0.0	4/	0/	3	1
			21/	1/	20	0.51	11/	0/	10	0.0	0.0	0.0	11/	0/	10	2
		SURF	10/	0/	9	0.71	7/	0/	7	0.0	<0.1	<0.1	7/	0/	6	
	U G	77/	2/	74	0.06	5/	0/	4	0.0	0.9	0.9	4/	0/	3		
			87/	2/	84	0.13	12/	0/	11	0.0	1.0	1.0	11/	0/	10	
MISCELLANEOUS																
1	LOW/MED VOL BIT	SURF	0/	0/	0	0.43	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			0/	0/	0	0.43	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
2	MED VOL BIT	SURF	0/	0/	0	0.12	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
			0/	0/	0	0.12	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
3	HIGH VOL BIT	SURF	0/	0/	0	0.08	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	
			0/	0/	0	0.08	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	
		SURF	0/	0/	0	0.26	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			0/	0/	0	0.26	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
	SURF	1930/	22/	1887	0.48	929/	10/	909	178.8	28.3	207.1	722/	10/	702		
	U G	5709/	47/	5614	0.15	834/	9/	815	0.0	126.0	126.0	708/	9/	690		
GRAND TOTAL			7639/	53/	7533	0.23	1763/	13/	1737	178.8	154.3	333.1	1430/	13/	1404	
TOTALS BY RANK																
RANK																
	SA	SURF	7/	1/	6	0.24	1/	0/	1	0.6	0.8	1.4	0/	0/	0	
		U G	441/	16/	408	0.02	8/	0/	8	0.0	8.3	8.3	0/	0/	0	
			448/	17/	415	0.02	10/	0/	10	0.6	9.0	9.6	0/	0/	0	
	L-V	SURF	629/	12/	605	0.51	317/	4/	310	103.2	6.2	109.4	208/	4/	201	
		U G	2448/	31/	2306	0.09	229/	3/	223	0.0	43.9	43.9	185/	3/	179	
			3076/	33/	3011	0.18	547/	4/	538	103.2	50.1	153.3	393/	4/	384	
	M-V	SURF	1145/	17/	1111	0.44	510/	8/	494	74.5	20.1	94.6	415/	8/	399	
		U G	2267/	30/	2206	0.23	519/	8/	502	0.0	52.2	52.2	487/	8/	450	
			3412/	36/	3340	0.30	1029/	11/	1006	74.5	72.3	146.8	882/	11/	859	
	H-V A	SURF	150/	6/	138	0.66	101/	5/	91	0.5	1.2	1.7	99/	5/	90	
		U G	553/	9/	535	0.14	77/	1/	74	0.0	21.6	21.6	56/	1/	53	
			703/	11/	680	0.25	178/	5/	168	0.5	22.8	23.3	155/	5/	145	

Mountain Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
	BE/	SE	BE/	SE	BE/	SE						
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
18	3.0/	0.09	1.9/	0.1	1.41/	0.04			27.5			
18	0.9/	0.03	2.3/	0.1	1.41/	0.04			0.0			
18	2.7/	0.08	2.4/	0.1	1.41/	0.04			27.5			
18	3.7/	0.07	3.8/	0.1	1.41/	0.03	152	L-V	27.5	4	1982	LUSCAR GP
	2.8/	0.07	2.3/	0.1	1.40/	0.03			27.5			
	4.5/	0.05	9.3/	0.1	1.36/	0.02	610		27.5			
	4.4/	0.05	11.2/	0.1	1.36/	0.01	610		27.5			
								L-V/M-V				
								M-V				
								H-V A				
	8.6/	0.07	134.9/	0.8	1.41/	0.01			27.0			
	8.8/	0.05	407.8/	1.9	1.35/	0.01			27.6			
	9.0/	0.04	524.9/	2.1	1.37/	0.00			27.3			
	5.3/	0.05	0.8/	0.0	1.36/	0.00	285		0.0			
	16.5/	0.25	19.9/	0.3	1.32/	0.01	610		0.0			
	15.9/	0.24	20.8/	0.3	1.32/	0.01	610	SA	0.0			
	8.0/	0.13	45.5/	0.3	1.45/	0.00	285		27.5			
	9.8/	0.08	151.9/	0.8	1.37/	0.00	610		27.8			
	9.7/	0.07	189.9/	0.9	1.38/	0.00	610	L-V	27.7			
	8.9/	0.08	78.9/	0.6	1.39/	0.01	455		26.6			
	8.2/	0.06	174.2/	1.3	1.35/	0.01	610		27.5			
	8.7/	0.05	244.4/	1.6	1.36/	0.01	610	M-V	27.1			
	9.0/	0.27	9.7/	0.1	1.42/	0.00	266		27.3			
	5.9/	0.06	61.8/	0.6	1.34/	0.01	610		27.6			
	6.5/	0.07	69.8/	0.5	1.35/	0.01	610	H-V A	27.4			

TABLE A-2 Established Resources And Reserves Of Coal In The Foothills Region Of Alberta, Detailed Table
At 31 December 1999

As of December 1999																
Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
COALSPUR																
1	COLD CREEK	SURF	2/	0/	2	0.86	2/	0/	2	0.0	<0.1	<0.1	2/	0/	2	1
		U G MED	4/	0/	3	0.52	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
			6/	0/	6	0.64	4/	0/	4	0.0	<0.1	<0.1	4/	0/	4	1
2	HARDISTY CREEK	SURF	8/	2/	5	0.85	7/	1/	4	0.0	0.0	0.0	7/	1/	4	4
		U G THN	12/	2/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	5/	1/	4	0.51	3/	0/	2	0.0	0.0	0.0	3/	0/	2	2
			26/	3/	20	0.33	10/	2/	7	0.0	0.0	0.0	10/	2/	7	7
3	WIGWAM	SURF	16/	6/	5	0.85	14/	5/	4	0.0	0.0	0.0	14/	5/	4	5
		U G THN	13/	2/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	9/	3/	3	0.19	4/	2/	1	0.0	0.0	0.0	4/	2/	1	2
			38/	7/	24	0.31	18/	5/	7	0.0	0.0	0.0	18/	5/	7	5
4	ANDERSON CREEK	SURF	20/	2/	15	0.00	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	7
		U G THN	2/	1/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	5/	1/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			27/	3/	20	0.00	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	7
5	MERCOAL	SURF	167/	6/	155	0.90	149/	5/	139	<0.1	4.8	4.8	144/	5/	134	4
		U G THN	33/	3/	27	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	27/	2/	23	0.52	14/	1/	12	0.0	0.0	0.0	14/	1/	12	1
		U G THK	2/	0/	1	0.96	1/	0/	1	0.0	0.0	0.0	1/	0/	1	1
			229/	7/	216	0.71	164/	5/	154	<0.1	4.8	4.8	159/	5/	149	4
6	DUMMY CREEK	SURF	64/	2/	60	0.74	47/	1/	44	<0.1	0.4	0.5	46/	1/	44	5
		U G THN	11/	1/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	3/	1/	1	0.31	1/	0/	0	0.0	0.0	0.0	1/	0/	0	1
		U G THK	12/	4/	4	0.30	4/	1/	1	0.0	0.0	0.0	4/	1/	1	1
			89/	2/	85	0.58	52/	1/	49	<0.1	0.4	0.5	51/	1/	49	7
7	COAL VALLEY	SURF	299/	4/	290	0.55	165/	2/	161	85.9	3.0	88.9	76/	2/	72	8
		U G THN	15/	1/	13	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	28/	1/	26	0.14	4/	0/	4	0.0	0.5	0.5	4/	0/	3	3
		U G THK	22/	2/	18	0.05	2/	0/	1	0.0	0.0	0.0	2/	0/	1	1
			364/	7/	349	0.48	171/	2/	167	85.9	3.5	89.4	82/	2/	78	9
8	MOOSE LAKE	SURF	3/	1/	2	0.59	2/	0/	1	0.0	0.0	0.0	2/	0/	1	2
		U G THN	5/	1/	3	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	1/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			8/	1/	6	0.17	2/	0/	1	0.0	0.0	0.0	2/	0/	1	2
		SURF	579/	10/	560	0.66	385/	7/	370	85.9	8.2	94.1	291/	7/	276	
		U G	207/	8/	192	0.16	35/	3/	30	0.0	0.5	0.5	34/	3/	29	
			787/	13/	761	0.53	420/	8/	405	85.9	8.7	94.6	325/	8/	310	

Foothills Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
15	3.0/ 0.09	0.6/ 0.0	1.33/ 0.04			22.6			
15	3.0/ 0.09	0.9/ 0.0	1.33/ 0.04			22.6			
15	3.0/ 0.06	1.4/ 0.0	1.33/ 0.03	610	H-V C	22.6	4	1976	
25	4.0/ 0.78	1.2/ 0.1	1.57/ 0.05	4- 170		17.3			
23	4.4/ 0.58	1.7/ 0.1	1.54/ 0.03	40- 420		0.0			
21	2.6/ 0.33	1.2/ 0.1	1.53/ 0.08	70- 270		18.5			
24	7.1/ 0.62	2.1/ 0.1	1.54/ 0.03	4- 420	H-V C	17.9	4	1983	
55	5.4/ 1.70	1.1/ 0.2	1.51/ 0.04	10- 370		19.5			
54	2.4/ 0.39	2.0/ 0.2	1.53/ 0.04	150- 600		0.0			
54	3.3/ 1.01	1.1/ 0.2	1.48/ 0.07	130- 600		20.4			
55	4.9/ 0.78	3.0/ 0.3	1.51/ 0.03	10- 600	H-V C	19.5	4	1983	
65	2.2/ 0.21	2.6/ 0.1	1.45/ 0.06	29- 133		0.0			
65	0.7/ 0.14	1.0/ 0.2	1.47/ 0.17	23- 132		0.0			
65	1.6/ 0.34	0.9/ 0.2	1.45/ 0.08	58- 138		0.0			
65	1.8/ 0.20	4.2/ 0.2	1.45/ 0.05	23- 138	H-V C	0.0	4	1984	COMPLEX STRUCTURE
40	6.2/ 0.14	14.3/ 0.3	1.43/ 0.01	1- 200		22.3			
41	1.8/ 0.05	10.0/ 0.9	1.43/ 0.02	12- 551		0.0			
41	3.2/ 0.14	4.5/ 0.2	1.40/ 0.00	33- 487		23.8			
41	3.8/ 0.18	0.3/ 0.1	1.41/ 0.00	96- 311		23.2			
40	5.1/ 0.09	23.7/ 0.5	1.43/ 0.01	1- 551	H-V C	22.6	4	1999	MINE #1799 - UNDEVELOPED
49	6.1/ 0.12	4.6/ 0.1	1.49/ 0.01	4- 103		18.8			
52	1.5/ 0.05	3.0/ 0.2	1.47/ 0.01	33- 112		0.0			
52	2.1/ 0.09	0.7/ 0.2	1.46/ 0.01	36- 46		20.0			
54	4.4/ 0.18	1.0/ 0.3	1.49/ 0.00	81- 427		19.4			
50	5.3/ 0.08	7.4/ 0.1	1.48/ 0.00	4- 427	H-V C	18.8	4	1999	
20	8.6/ 0.09	22.7/ 0.2	1.44/ 0.01	2- 200		20.7			
20	1.1/ 0.02	8.9/ 0.5	1.45/ 0.02	14- 403		0.0			
22	3.3/ 0.07	5.6/ 0.2	1.42/ 0.01	36- 375		21.9			
20	4.6/ 0.15	3.1/ 0.2	1.44/ 0.02	107- 443		21.3			
20	8.2/ 0.08	29.0/ 0.5	1.43/ 0.01	2- 443	H-V C	20.7	4	1999	MINE #1778 - PRODUCING
23	1.8/ 0.14	0.9/ 0.2	1.53/ 0.02	2- 151		17.9			
23	1.0/ 0.20	2.7/ 0.2	1.50/ 0.06	21- 217		0.0			
23	2.0/ 0.23	0.2/ 0.1	1.54/ 0.03	66- 154		0.0			
23	1.3/ 0.15	3.8/ 0.2	1.51/ 0.04	2- 217	H-V C	17.9	4	1992	
	6.6/ 0.08	48.0/ 0.5	1.45/ 0.01	370		21.0			
	3.5/ 0.08	31.0/ 0.9	1.45/ 0.01	600		21.9			
	5.6/ 0.06	74.7/ 0.9	1.44/ 0.01	610		21.2			

TABLE A-2 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes				megatonnes			megatonnes			megatonnes			
HANNINGTON																
1	HANNINGTON	SURF	140/	7/	126	0.87	122/	6/	109	0.0	0.0	0.0	122/	6/	109	3
		U G THN	28/	6/	16	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	13/	3/	7	0.53	7/	2/	4	0.0	0.0	0.0	7/	2/	4	1
			181/	7/	166	0.70	129/	6/	117	0.0	0.0	0.0	129/	6/	117	3
		SURF	140/	7/	126	0.87	122/	6/	109	0.0	0.0	0.0	122/	6/	109	
		U G	41/	7/	28	0.13	7/	2/	4	0.0	0.0	0.0	7/	2/	4	
			181/	7/	166	0.70	129/	6/	117	0.0	0.0	0.0	129/	6/	117	
JARVIS LAKE																
1	POLECAT CREEK	SURF	7/	3/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THN	10/	2/	6	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	26/	4/	18	0.51	14/	2/	9	0.0	0.0	0.0	14/	2/	9	3
			44/	5/	34	0.27	14/	2/	9	0.0	0.0	0.0	14/	2/	9	5
2	PINTO CREEK	SURF	39/	4/	32	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G THN	20/	2/	15	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	96/	8/	80	0.37	37/	4/	30	0.0	0.0	0.0	37/	4/	30	5
		U G THK	14/	4/	7	0.48	7/	2/	3	0.0	0.0	0.0	7/	2/	3	1
			169/	10/	150	0.24	44/	4/	36	0.0	0.0	0.0	44/	4/	36	10
3	TWELVE MILE CREEK	SURF	77/	8/	61	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G THN	3/	1/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	48/	6/	36	0.42	21/	3/	15	0.0	0.0	0.0	21/	3/	15	5
		U G THK	2/	1/	1	0.40	1/	0/	0	0.0	0.0	0.0	1/	0/	0	1
			130/	10/	109	0.15	22/	3/	16	0.0	0.0	0.0	22/	3/	16	7
4	PEPPERS LAKE	SURF	135/	4/	126	0.75	101/	3/	95	0.0	0.0	0.0	101/	3/	95	21
		U G THN	11/	1/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	22/	3/	16	0.31	7/	1/	5	0.0	0.0	0.0	7/	1/	5	3
			168/	4/	159	0.64	108/	3/	102	0.0	0.0	0.0	108/	3/	102	21
		SURF	258/	10/	237	0.40	101/	3/	95	0.0	0.0	0.0	101/	3/	95	
		U G	252/	12/	227	0.33	86/	6/	75	0.0	0.0	0.0	86/	6/	75	
			510/	16/	479	0.37	187/	6/	175	0.0	0.0	0.0	187/	6/	175	
MCLEOD RIVER																
1	MCPHERSON CREEK	SURF	669/	13/	644	0.86	576/	11/	554	<0.1	0.2	0.2	576/	11/	554	7
		U G THN	98/	5/	88	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	103/	8/	87	0.52	54/	4/	46	0.0	0.0	0.0	54/	4/	46	2
		U G THK	111/	9/	93	0.38	42/	3/	36	0.0	0.0	0.0	42/	3/	36	1
			982/	15/	952	0.68	673/	10/	652	<0.1	0.2	0.2	673/	10/	652	5
2	WHITE CREEK	SURF	314/	9/	296	0.82	258/	7/	244	0.3	0.4	0.7	257/	7/	243	4
		U G THN	8/	1/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	10/	1/	8	0.51	5/	1/	4	0.0	0.0	0.0	5/	1/	4	1
		U G THK	35/	9/	18	0.31	10/	2/	6	0.0	0.0	0.0	10/	2/	6	1
			367/	9/	349	0.75	274/	7/	260	0.3	0.4	0.7	273/	7/	259	4

Foothills Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
	BE/	SE	BE/	SE	BE/	SE						
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
1	3.3/	0.08	29.9/	1.3	1.44/	0.00	7- 89		20.3			
1	1.2/	0.06	16.3/	3.4	1.46/	0.01	20- 96		0.0			
1	1.7/	0.17	5.4/	1.1	1.45/	0.02	39- 86		20.6			
1	2.7/	0.06	45.9/	1.6	1.45/	0.00	7- 96	SUB A	20.3	4	1991	
	3.3/	0.08	29.9/	1.3	1.44/	0.00	7- 89		20.3			
	1.7/	0.08	16.3/	2.5	1.46/	0.01	20- 96		20.6			
	2.7/	0.06	45.9/	1.6	1.45/	0.00	7- 96		20.3			
7	2.3/	0.29	2.0/	0.7	1.61/	0.13	5- 75		0.0			
7	1.4/	0.14	4.5/	0.8	1.65/	0.05	75- 95		0.0			
7	4.0/	0.27	4.0/	0.6	1.65/	0.06	75- 170		15.9			
7	4.9/	0.33	5.5/	0.5	1.64/	0.05	5- 170	H-V C	15.9	2	1984	
4	2.9/	0.13	8.5/	0.7	1.60/	0.03	5- 125		0.0			
4	1.2/	0.06	10.9/	1.2	1.56/	0.03	20- 200		0.0			
4	3.4/	0.17	17.5/	1.1	1.61/	0.03	40- 200		16.4			
4	4.0/	0.28	2.0/	0.5	1.68/	0.03	90- 175		14.5			
4	4.6/	0.19	22.8/	0.8	1.61/	0.03	5- 200	H-V C	16.1	2	1984	
4	3.8/	0.25	13.0/	1.0	1.55/	0.05	5- 75		0.0			
4	0.8/	0.06	2.2/	0.5	1.58/	0.02	60- 125		0.0			
4	3.2/	0.20	9.7/	1.0	1.55/	0.07	45- 145		18.4			
4	3.6/	0.30	0.3/	0.1	1.56/	0.05	90- 110		18.1			
4	4.8/	0.27	17.5/	0.8	1.55/	0.05	5- 145	H-V C	18.4	2	1984	
11	8.5/	0.19	10.6/	0.2	1.46/	0.00	3- 199		21.7			
11	2.0/	0.10	3.7/	0.4	1.48/	0.01	38- 241		0.0			
11	2.8/	0.13	5.2/	0.6	1.46/	0.01	46- 343		22.3			
11	7.4/	0.14	15.3/	0.3	1.46/	0.00	3- 343	H-V C	21.7	4,2&1	1991	CATEGORY 4 - 80%, CATEGORY 2 - 15%
	5.0/	0.12	34.1/	1.0	1.51/	0.02	3- 199		21.7			
	4.3/	0.11	36.9/	1.5	1.58/	0.02	20- 343		17.2			
	5.4/	0.12	61.1/	1.2	1.55/	0.02	3- 343		19.6			
8	12.4/	0.20	37.2/	0.4	1.45/	0.00	1- 200		20.7			
8	1.9/	0.04	34.6/	1.5	1.45/	0.01	31- 599		0.0			
8	3.5/	0.11	19.9/	1.4	1.46/	0.00	36- 580		20.7			
8	6.2/	0.15	12.5/	1.0	1.45/	0.00	108- 590		21.3			
8	9.7/	0.12	69.7/	0.6	1.45/	0.00	1- 599	H-V C	20.7	4,2&1	1999	MINE #1798 - UNDEVELOPED; CATEGORY 4 - 85%
23	11.0/	0.15	18.0/	0.4	1.47/	0.01	1- 199		20.5			
23	1.0/	0.04	4.5/	0.7	1.50/	0.02	26- 426		0.0			
23	3.6/	0.18	1.9/	0.2	1.43/	0.01	55- 415		22.0			
23	6.0/	0.16	3.8/	0.9	1.45/	0.00	124- 467		21.1			
23	9.4/	0.12	24.6/	0.5	1.47/	0.01	1- 467	H-V C	20.5	4	1999	

TABLE A-2 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
MCLEOD RIVER																
3	ERITH RIVER	SURF	141/	7/	126	0.74	104/	5/	93	<0.1	0.5	0.5	103/	5/	92	11
		U G THN	7/	1/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	25/	3/	18	0.42	12/	2/	8	0.0	<0.1	<0.1	12/	2/	8	4
		U G THK	42/	8/	26	0.31	17/	4/	8	0.0	0.0	0.0	17/	4/	8	2
			214/	8/	198	0.62	133/	5/	123	<0.1	0.6	0.6	132/	5/	122	12
4	LENDURUM CREEK	SURF	185/	18/	149	0.86	159/	16/	128	0.0	0.0	0.0	159/	16/	128	6
		U G THN	126/	13/	100	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	62/	9/	45	0.53	33/	5/	24	0.0	0.0	0.0	33/	5/	24	2
		U G THK	52/	6/	40	0.42	22/	3/	17	0.0	0.0	0.0	22/	3/	17	1
			424/	32/	361	0.49	214/	18/	177	0.0	0.0	0.0	214/	18/	177	6
		SURF	1308/	25/	1258	0.84	1097/	21/	1055	0.3	1.2	1.4	1096/	21/	1054	
		U G	678/	24/	629	0.28	196/	9/	178	0.0	<0.1	<0.1	196/	9/	177	
			1987/	37/	1913	0.65	1293/	23/	1248	0.3	1.3	1.5	1292/	23/	1246	
MORLEY HILL																
1	MORLEY HILL	SURF	38/	2/	34	0.87	33/	2/	29	0.0	0.0	0.0	33/	2/	29	5
		U G THN	18/	2/	15	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	9/	1/	7	0.53	5/	1/	4	0.0	0.0	0.0	5/	1/	4	1
			65/	3/	60	0.57	38/	2/	34	0.0	0.0	0.0	38/	2/	34	3
		SURF	38/	2/	34	0.86	33/	2/	29	0.0	0.0	0.0	33/	2/	29	
		U G	27/	2/	23	0.15	5/	1/	3	0.0	0.0	0.0	5/	1/	3	
			65/	3/	60	0.57	38/	2/	34	0.0	0.0	0.0	38/	2/	34	
OBED MOUNTAIN																
1	MARSH NORTH	SURF	2/	0/	2	0.88	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
		U G THN	4/	0/	3	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			7/	1/	8	0.27	2/	0/	2	0.0	0.0	0.0	2/	0/	2	1
2	MARSH SOUTH	SURF	28/	1/	26	0.87	24/	1/	22	0.0	0.0	0.0	24/	1/	22	2
			28/	1/	26	0.87	24/	1/	22	0.0	0.0	0.0	24/	1/	22	2
3	OBED NORTH	SURF	10/	1/	9	0.87	8/	0/	8	7.1	0.0	7.1	1/	0/	1	2
			10/	1/	9	0.87	8/	0/	8	7.1	0.0	7.1	1/	0/	1	2
4	OBED SOUTH	SURF	129/	2/	125	0.85	108/	1/	105	26.1	0.0	26.1	82/	1/	79	3
			129/	2/	125	0.85	108/	1/	105	26.1	0.0	26.1	82/	1/	79	3
5	OBED EAST	SURF	9/	0/	8	0.87	7/	0/	7	0.0	0.0	0.0	7/	0/	7	1
			9/	0/	8	0.87	7/	0/	7	0.0	0.0	0.0	7/	0/	7	1
		SURF	177/	2/	172	0.85	150/	2/	147	33.2	0.0	33.2	117/	2/	113	
		U G	4/	0/	3	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			182/	3/	177	0.83	150/	2/	147	33.2	0.0	33.2	117/	2/	113	
ISOLATED DEPOSITS																
1	ALEXO	SURF	3/	0/	2	0.11	0/	0/	0	0.3	0.0	0.3	0/	0/	0	1
		U G MED	15/	1/	13	0.51	7/	0/	7	0.0	1.5	1.5	6/	0/	5	1
			17/	1/	16	0.45	8/	0/	7	0.3	1.5	1.8	6/	0/	5	1

Foothills Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
40	10.4/ 0.19	7.3/ 0.4	1.43/ 0.00	2- 250		21.7			
40	1.1/ 0.06	3.2/ 0.6	1.40/ 0.02	12- 392		0.0			
40	2.8/ 0.15	4.8/ 0.6	1.42/ 0.02	35- 544		22.3			
40	4.3/ 0.21	5.2/ 0.9	1.43/ 0.02	68- 546		21.7			
40	10.1/ 0.16	11.4/ 0.4	1.43/ 0.00	2- 546	H-V C	21.7	4	1992	
26	8.4/ 0.66	13.3/ 0.7	1.48/ 0.03	15- 305		20.8			
27	2.8/ 0.27	26.3/ 0.9	1.51/ 0.03	18- 589		0.0			
27	2.4/ 0.29	15.5/ 0.7	1.51/ 0.07	78- 572		19.6			
29	4.5/ 0.18	6.9/ 0.7	1.47/ 0.06	331- 554		21.1			
27	6.6/ 0.45	38.3/ 1.0	1.49/ 0.03	15- 589	H-V C	20.8	4	1984	
	11.1/ 0.16	75.8/ 0.9	1.46/ 0.00	1- 305		20.8			
	5.9/ 0.13	72.7/ 2.0	1.47/ 0.01	12- 599		20.9			
	8.8/ 0.14	144.0/ 1.3	1.46/ 0.01	1- 599		20.8			
8	6.4/ 0.18	4.0/ 0.2	1.44/ 0.01	5- 185		24.4			
8	1.6/ 0.07	7.7/ 0.5	1.47/ 0.02	25- 236		0.0			
8	3.0/ 0.16	2.1/ 0.3	1.45/ 0.01	51- 235		24.4			
8	4.0/ 0.09	11.2/ 0.4	1.45/ 0.01	5- 236	H-V B	24.4	3	1993	
	6.4/ 0.18	4.0/ 0.2	1.44/ 0.01	5- 185		24.4			
	2.4/ 0.08	7.7/ 0.5	1.46/ 0.01	25- 236		24.4			
	4.0/ 0.09	11.2/ 0.4	1.45/ 0.01	5- 236		24.4			
1	1.2/ 0.10	1.4/ 0.2	1.49/ 0.01	10- 28		18.0			
1	1.2/ 0.10	2.4/ 0.1	1.50/ 0.01	16- 31		0.0			
1	1.2/ 0.07	3.7/ 0.2	1.50/ 0.01	10- 31	SUB A	18.0	4	1991	
1	2.4/ 0.06	7.8/ 0.2	1.44/ 0.00	2- 37		20.0			
1	2.4/ 0.06	7.8/ 0.2	1.44/ 0.00	2- 37	SUB A	20.0	4	1991	
1	4.3/ 0.12	1.6/ 0.1	1.46/ 0.00	1- 50		20.3			
1	4.3/ 0.12	1.6/ 0.1	1.46/ 0.00	1- 50HVC/SUBA		20.3	4	1991	
1	5.6/ 0.09	16.1/ 0.1	1.44/ 0.00	1- 181		21.0			
1	5.6/ 0.09	16.1/ 0.1	1.44/ 0.00	1- 181HVC/SUBA		21.0	4	1999	MINE #1791 - PRODUCING
1	1.5/ 0.04	3.9/ 0.1	1.47/ 0.01	3- 36		19.5			
1	1.5/ 0.04	3.9/ 0.1	1.47/ 0.01	3- 36HVC/SUBA		19.5	4	1993	
	4.0/ 0.05	30.7/ 0.2	1.44/ 0.00	1- 181		20.6			
	1.2/ 0.10	2.4/ 0.1	1.50/ 0.01	16- 31		0.0			
	3.8/ 0.05	33.1/ 0.2	1.44/ 0.00	1- 181		20.6			
5	1.8/ 0.05	1.0/ 0.0	1.41/ 0.04			0.0			
5	1.8/ 0.05	5.7/ 0.2	1.41/ 0.04			24.2			
5	1.8/ 0.04	6.8/ 0.2	1.41/ 0.04	305	H-V B/C	24.2	2	1976	COALSPUR FILL

TABLE A-2 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
ISOLATED DEPOSITS																
2	LUNDBRECK	U G THN	1/	0/	0	0.04	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	7/	0/	6	0.03	0/	0/	0	0.0	0.2	0.2	0/	0/	0	1
			7/	0/	6	0.03	0/	0/	0	0.0	0.2	0.2	0/	0/	0	2
3	MAXWELL LAKE	SURF	2/	0/	2	0.20	0/	0/	0	0.4	0.0	0.4	0/	0/	0	1
		U G MED	1/	0/	1	0.21	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
			4/	0/	3	0.20	1/	0/	1	0.4	0.3	0.6	0/	0/	0	1
4	SHUNDA CREEK	U G THN	2/	0/	2	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	6/	0/	5	0.53	3/	0/	3	0.0	<0.1	<0.1	3/	0/	3	2
			8/	0/	7	0.37	3/	0/	3	0.0	<0.1	<0.1	3/	0/	3	3
5	THOMPSON CREEK	SURF	18/	1/	16	0.85	15/	1/	14	0.0	0.0	0.0	15/	1/	14	1
		U G MED	24/	1/	22	0.53	13/	1/	12	0.0	0.0	0.0	13/	1/	12	1
			42/	2/	38	0.67	28/	1/	26	0.0	0.0	0.0	28/	1/	26	1
		SURF	22/	1/	21	0.89	16/	1/	14	0.7	0.0	0.7	15/	1/	14	
		U G	55/	1/	52	0.42	24/	1/	22	0.0	2.0	2.0	22/	1/	20	
			77/	2/	74	0.50	39/	1/	37	0.7	2.0	2.7	37/	1/	35	
MISCELLANEOUS																
1	HIGH VOL BIT	SURF	3/	1/	2	0.54	1/	0/	1	<0.1	1.1	1.1	0/	0/	0	
			3/	1/	2	0.54	1/	0/	1	<0.1	1.1	1.1	0/	0/	0	
		SURF	3/	1/	2	0.54	1/	0/	1	<0.1	1.1	1.1	0/	0/	0	
		U G	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			3/	1/	2	0.54	1/	0/	1	<0.1	1.1	1.1	0/	0/	0	
	SURF	2526/	30/	2467	0.75	1904/	23/	1857	120.0	10.5	130.6	1774/	23/	1727		
	U G	1265/	29/	1206	0.27	353/	11/	330	0.0	2.6	2.6	350/	11/	327		
GRAND TOTAL			3791/	43/	3705	0.60	2257/	26/	2206	120.0	13.1	133.1	2124/	26/	2073	

Foothills Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	BE/	SE	BE/	SE	BE/	SE	metres	ASTM	MJ/kg			
45	1.0/	0.03	0.3/	0.0	1.34/	0.04			0.0			
45	1.7/	0.05	2.1/	0.1	1.34/	0.04			0.0			
45	1.8/	0.05	2.1/	0.1	1.34/	0.04	274	H-V A/B	0.0	1	1976	BELLY RIVER FM
16	1.7/	0.05	0.9/	0.0	1.42/	0.04			0.0			
16	1.7/	0.05	0.6/	0.0	1.42/	0.04			0.0			
16	1.7/	0.04	1.4/	0.0	1.42/	0.03	610	H-V B/C	0.0	1	1976	UPPER BRAZEAU FM
19	1.2/	0.03	1.3/	0.0	1.31/	0.04			0.0			
19	3.0/	0.09	1.4/	0.0	1.31/	0.04			24.1			
19	4.3/	0.09	1.4/	0.0	1.31/	0.03	335	H-V B/C	24.1	2	1976	COALSPUR FM
15	3.1/	0.09	4.2/	0.1	1.32/	0.04			25.0			
15	3.1/	0.09	5.8/	0.2	1.32/	0.04			25.0			
15	3.1/	0.07	10.0/	0.2	1.32/	0.03	152	H-V B	25.0	4	1976	BRAZEAU FM (BUT MAY BE COALSPUR FM)
	2.7/	0.06	6.1/	0.1	1.34/	0.03			25.0			
	2.5/	0.04	15.4/	0.2	1.35/	0.02			24.7			
	2.5/	0.03	21.5/	0.3	1.35/	0.02	610		24.8			
								H-V B/C				
	7.0/	0.06	230.2/	1.8	1.46/	0.00			20.9			
	4.3/	0.06	182.3/	3.3	1.48/	0.01			20.4			
	6.1/	0.06	393.0/	2.4	1.46/	0.00			20.8			

TABLE A-2 (Continued)

Coal Field Coal Deposit	Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
		BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No. Name		megatonnes							megatonnes						
<u>TOTALS BY RANK</u>															
	<u>RANK</u>														
	H-V A	SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0
		U G	4/	0/	3	0.04	0/	0/	0	0.0	0.1	0.1	0/	0/	0
			4/	0/	3	0.04	0/	0/	0	0.0	0.1	0.1	0/	0/	0
	H-V B	SURF	59/	2/	55	0.81	49/	2/	45	0.3	0.6	0.9	48/	2/	44
		U G	66/	2/	62	0.34	23/	1/	21	0.0	1.0	1.0	22/	1/	20
			126/	3/	120	0.56	72/	2/	68	0.3	1.6	1.9	70/	2/	66
	H-V C	SURF	2253/	29/	2196	0.74	1671/	22/	1626	107.8	10.0	117.8	1553/	22/	1508
		U G	1150/	28/	1093	0.27	322/	11/	300	0.0	1.5	1.5	321/	11/	299
			3403/	42/	3318	0.59	1994/	25/	1944	107.8	11.4	119.3	1874/	25/	1825
	SUB A	SURF	214/	7/	199	0.86	185/	6/	172	11.9	0.0	11.9	173/	6/	160
		U G	45/	7/	32	0.12	7/	2/	4	0.0	0.0	0.0	7/	2/	4
			259/	8/	244	0.74	192/	6/	180	11.9	0.0	11.9	180/	6/	168

Foothills Region

Avg Dip	Aggregate Avg Thickness	Map Area	Density Used	Depth Range	Rank	As Mined	Land Catg	Year Calc	Remarks
	BE/ SE	BE/ SE	BE/ SE			H V			
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	0.0/ 0.00	0.0/ 0.0	0.00/ 0.00			0.0			
	1.8/ 0.05	1.0/ 0.0	1.34/ 0.02			0.0			
—	1.8/ 0.05	1.0/ 0.0	1.34/ 0.02	274	H-V A	0.0			
	4.2/ 0.08	10.0/ 0.3	1.40/ 0.01	165		24.6			
	2.5/ 0.05	18.3/ 0.5	1.39/ 0.01	236		24.7			
—	3.2/ 0.04	27.7/ 0.5	1.39/ 0.01	610	H-V B	24.6			
	8.0/ 0.08	174.0/ 1.4	1.46/ 0.00	370		20.9			
	4.9/ 0.07	144.3/ 2.8	1.49/ 0.01	600		20.1			
—	7.0/ 0.07	299.7/ 2.0	1.47/ 0.00	610	H-V C	20.7			
	3.2/ 0.05	46.2/ 1.4	1.44/ 0.00	1-161		20.3			
	1.7/ 0.07	18.7/ 2.6	1.46/ 0.01	16- 96		20.6			
—	2.8/ 0.04	64.5/ 1.6	1.45/ 0.00	1-161	SUB A	20.3			

TABLE A-3 Established Resources And Reserves Of Coal In The Plains Region Of Alberta, Detailed Table
At 31 December 1999

Coal Field		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
Coal Deposit			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name	megatonnes					megatonnes									
ALIX																
1	TRISTRAM	SURF	39/	7/	24	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G THN	194/	16/	161	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
			232/	18/	196	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
2	PARLBY LAKE	SURF	6/	2/	3	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	306/	14/	277	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	32/	5/	23	0.55	19/	3/	12	0.0	0.0	0.0	19/	3/	12	1
			343/	15/	313	0.04	19/	3/	12	0.0	0.0	0.0	19/	3/	12	5
3	TEES	SURF	201/	9/	182	0.79	158/	8/	143	0.0	0.0	0.0	158/	8/	143	4
		U G THN	890/	43/	805	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	372/	34/	305	0.67	250/	23/	205	0.0	0.0	0.0	250/	23/	205	3
			1463/	57/	1349	0.27	408/	20/	369	0.0	0.0	0.0	408/	20/	369	6
4	HAYNES	SURF	162/	5/	152	0.70	113/	4/	106	0.1	<0.1	0.2	113/	4/	106	5
		U G THN	1261/	50/	1161	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	7
		U G MED	1469/	38/	1393	0.62	906/	19/	868	0.0	0.0	0.0	906/	19/	868	3
			2892/	64/	2765	0.35	1019/	19/	981	0.1	<0.1	0.2	1019/	19/	981	7
5	HEATBURG	SURF	166/	16/	135	0.73	121/	11/	98	0.7	<0.1	0.8	120/	11/	98	4
		U G THN	26/	6/	14	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
			193/	17/	158	0.62	121/	11/	98	0.7	<0.1	0.8	120/	11/	98	7
		SURF	574/	20/	533	0.68	393/	14/	364	0.9	<0.1	0.9	392/	14/	363	
		U G	4550/	87/	4376	0.25	1175/	30/	1115	0.0	0.0	0.0	1175/	30/	1115	
		5123/	90/	4942	0.30	1567/	30/	1507	0.9	<0.1	0.9	1567/	30/	1507		
ARDLEY																
1	OELBURNE	SURF	620/	11/	598	0.72	446/	8/	430	0.2	0.2	0.4	446/	8/	429	8
		U G THN	289/	13/	262	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	6
		U G MED	554/	22/	510	0.54	303/	13/	277	0.0	<0.1	<0.1	303/	13/	277	3
			1462/	16/	1429	0.51	749/	10/	729	0.2	0.3	0.5	748/	10/	729	9
2	HILLSDOWN	SURF	18/	3/	11	0.45	10/	2/	5	<0.1	<0.1	<0.1	10/	2/	5	2
		U G THN	57/	5/	46	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	2054/	45/	1964	0.65	1324/	28/	1269	0.0	0.0	0.0	1324/	28/	1269	2
			2128/	45/	2037	0.63	1334/	28/	1278	<0.1	<0.1	<0.1	1334/	28/	1278	3
3	PINE LAKE	U G THN	182/	12/	157	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	2418/	53/	2314	0.67	1620/	34/	1552	0.0	0.0	0.0	1620/	34/	1552	2
			2600/	55/	2491	0.62	1620/	34/	1552	0.0	0.0	0.0	1620/	34/	1552	5
4	ELNORA	U G THN	131/	35/	61	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	1059/	38/	983	0.66	691/	21/	649	0.0	0.0	0.0	691/	21/	649	2
			1190/	43/	1104	0.59	691/	21/	649	0.0	0.0	0.0	691/	21/	649	2

Plains Region

Avg Dip	Aggregate Avg Thickness	Map Area	Density Used	Depth Range	Rank	As Mined	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	H V			
	1.9/ 0.23	13.2/ 1.7	1.50/ 0.10	24- 60		0.0			
	1.3/ 0.09	96.3/ 4.5	1.48/ 0.02	11- 96		0.0			
	1.5/ 0.10	104.5/ 3.6	1.49/ 0.03	11- 96	SUB B	0.0		1984	
	1.2/ 0.05	3.3/ 0.9	1.50/ 0.02	20- 49		0.0			
	1.2/ 0.04	162.2/ 5.0	1.53/ 0.02	15- 187		0.0			
	1.8/ 0.13	11.4/ 1.4	1.56/ 0.01	41- 87		14.7			
	1.3/ 0.04	172.6/ 4.7	1.53/ 0.02	15- 187	SUB B	14.7		1986	
	4.0/ 0.10	33.1/ 1.3	1.51/ 0.01	17- 60		16.4			
	1.9/ 0.08	316.4/ 8.2	1.50/ 0.01	17- 224		0.0			
	2.1/ 0.07	114.4/ 9.6	1.52/ 0.01	40- 179		16.2			
	2.7/ 0.10	367.3/ 3.7	1.50/ 0.01	17- 224	SUB B	16.2		1985	
	3.8/ 0.07	29.8/ 0.8	1.45/ 0.01	4- 60		17.2			
	2.3/ 0.06	371.3/ 9.3	1.46/ 0.02	21- 283		0.0			
	3.2/ 0.06	323.8/ 5.2	1.43/ 0.01	28- 244		17.7			
	4.7/ 0.06	425.3/ 7.7	1.44/ 0.00	4- 283	SUB B	17.7		1991	
	5.7/ 0.49	19.5/ 0.5	1.50/ 0.05	1- 57		16.0			
	1.1/ 0.23	15.6/ 1.0	1.52/ 0.13	17- 72		0.0			
	3.7/ 0.26	34.7/ 1.7	1.50/ 0.04	1- 72	SUB B	16.0		1984	
	3.9/ 0.11	98.8/ 1.9	1.49/ 0.02	1- 60		16.5			
	3.1/ 0.04	1010.9/ 12.7	1.47/ 0.01	11- 283		17.3			
	3.2/ 0.04	1104.3/ 12.1	1.47/ 0.00	1- 283		17.1			
	5.2/ 0.07	84.2/ 0.9	1.43/ 0.00	1- 60		16.7			
	1.4/ 0.03	138.4/ 5.5	1.44/ 0.01	10- 119		0.0			
	2.6/ 0.04	153.3/ 5.7	1.40/ 0.00	26- 109		18.0			
	4.2/ 0.04	243.7/ 1.7	1.42/ 0.00	1- 119	SUB B	17.2		1992	
	2.9/ 0.05	4.3/ 0.8	1.43/ 0.01	14- 55		18.5			
	0.8/ 0.02	52.0/ 4.6	1.44/ 0.01	54- 284		0.0			
	3.6/ 0.06	397.8/ 4.4	1.45/ 0.01	29- 289		18.0			
	3.7/ 0.03	402.0/ 8.0	1.45/ 0.00	14- 289	SUB B	18.0		1991	
	0.9/ 0.03	135.0/ 6.6	1.48/ 0.06	80- 321		0.0			
	4.0/ 0.08	415.2/ 3.3	1.47/ 0.00	75- 327		17.7			
	4.3/ 0.02	415.2/ 8.3	1.47/ 0.00	75- 327	SUB B	17.7		1991	
	1.3/ 0.09	66.6/ 17.1	1.55/ 0.01	83- 140		0.0			
	2.6/ 0.07	271.5/ 6.2	1.47/ 0.01	75- 189		17.9			
	3.0/ 0.08	271.5/ 6.2	1.48/ 0.01	75- 189	SUB B	17.9		1986	

TABLE A-3 (Continued)

Coal Field		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
Coal Deposit			BE/	SE/	Estb		BE/	SE/	Estb	Surf	UG	Tot	BE/	SE/	Estb	
No.	Name	megatonnes					megatonnes									
ARDLEY																
5	GOOSEQUILL LAKE	SURF	179/	10/	159	0.41	75/	5/	65	0.0	<0.1	<0.1	75/	5/	65	2
		U G THN	71/	10/	52	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	156/	13/	129	0.42	66/	6/	55	0.0	<0.1	<0.1	66/	6/	55	1
			406/	22/	363	0.35	141/	7/	126	0.0	<0.1	<0.1	141/	7/	126	2
6	HUXLEY	SURF	110/	9/	93	0.39	44/	4/	36	<0.1	0.2	0.2	44/	4/	36	1
		U G THN	21/	4/	12	0.01	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	88/	7/	74	0.34	31/	3/	25	0.0	0.0	0.0	31/	3/	25	1
			219/	12/	195	0.33	75/	5/	65	<0.1	0.3	0.3	75/	5/	65	1
7	TROCHU	SURF	21/	4/	12	0.44	10/	2/	5	0.0	<0.1	<0.1	10/	2/	5	1
		U G THN	416/	31/	354	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	1381/	41/	1297	0.67	923/	26/	871	0.0	0.0	0.0	923/	26/	871	1
			1819/	40/	1740	0.52	932/	16/	901	0.0	<0.1	<0.1	932/	16/	901	3
8	THREE HILLS	SURF	55/	4/	46	0.28	18/	2/	13	0.3	1.0	1.3	15/	2/	12	1
		U G THN	50/	6/	38	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	119/	7/	104	0.47	59/	5/	49	0.0	0.0	0.0	59/	5/	49	1
			223/	10/	202	0.32	75/	5/	65	0.3	1.0	1.3	74/	5/	64	1
9	GHOSTPINE CREEK	SURF	31/	3/	24	0.73	24/	3/	18	<0.1	<0.1	<0.1	24/	3/	18	1
		U G THN	18/	4/	9	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	8/	2/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			55/	6/	43	0.41	24/	3/	18	<0.1	<0.1	<0.1	24/	3/	18	1
10	CARBON	SURF	3/	0/	2	0.03	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	25/	1/	22	0.06	1/	0/	1	0.0	1.4	1.4	0/	0/	0	1
			28/	2/	25	0.06	1/	0/	1	<0.1	1.4	1.4	0/	0/	0	1
		SURF	1038/	19/	999	0.60	624/	11/	602	0.5	1.6	2.1	622/	11/	599	
	U G	9094/	107/	8879	0.55	5018/	57/	4903	0.0	1.5	1.5	5016/	57/	4902		
			10130/	97/	9936	0.56	5642/	53/	5535	0.5	3.1	3.7	5638/	53/	5532	
BARRHEAD																
1	SHOAL LAKE	U G THN	110/	15/	80	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
			110/	15/	80	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
2	BLOOMSBURY	SURF	187/	22/	142	0.45	81/	8/	64	0.0	<0.1	<0.1	81/	8/	64	2
		U G THN	148/	13/	121	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	15/	4/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			349/	26/	297	0.22	81/	8/	64	0.0	<0.1	<0.1	81/	8/	64	3

Plains Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	2.7/ 0.11	43.2/ 1.0	1.52/ 0.05	5- 57		16.2			
	1.6/ 0.21	28.3/ 0.9	1.53/ 0.06	12- 138		0.0			
	2.1/ 0.13	47.1/ 1.6	1.55/ 0.08	16- 106		16.0			
	2.5/ 0.10	107.9/ 2.3	1.53/ 0.04	5- 138	SUB B	16.2		1982	
	2.1/ 0.10	36.2/ 0.8	1.45/ 0.08	8- 48		17.8			
	1.1/ 0.17	12.8/ 0.6	1.45/ 0.19	15- 57		0.0			
	2.1/ 0.09	28.5/ 0.9	1.50/ 0.09	30- 103		18.0			
	1.9/ 0.08	76.7/ 1.6	1.47/ 0.06	6- 103	SUB B	17.8		1982	
	1.6/ 0.05	9.4/ 2.0	1.42/ 0.01	5- 27		19.7			
	1.1/ 0.06	251.4/ 10.3	1.46/ 0.04	12- 288		0.0			
	1.9/ 0.05	514.7/ 9.3	1.40/ 0.00	25- 289		20.5			
	2.4/ 0.04	542.1/ 8.1	1.41/ 0.00	5- 289	SUB A/B	20.5		1991	
	1.8/ 0.09	20.9/ 0.5	1.43/ 0.07	8- 42		19.6			
	1.0/ 0.07	33.1/ 0.9	1.47/ 0.15	15- 110		0.0			
	1.9/ 0.05	41.8/ 1.0	1.46/ 0.07	28- 103		18.8			
	1.7/ 0.05	92.9/ 2.0	1.45/ 0.04	8- 110	SUB B	19.1		1982	
	1.9/ 0.09	11.8/ 0.4	1.40/ 0.13	8- 32		20.3			
	1.0/ 0.17	11.7/ 0.9	1.37/ 0.17	10- 32		0.0			
	1.6/ 0.14	3.6/ 0.9	1.35/ 0.04	27- 29		0.0			
	1.5/ 0.11	27.1/ 0.7	1.39/ 0.10	8- 32	SUB B	20.3		1982	
	1.2/ 0.03	2.0/ 0.3	1.36/ 0.02	10- 12		0.0			
	1.2/ 0.02	14.7/ 0.8	1.42/ 0.02	22- 69		0.0			
	1.2/ 0.02	16.7/ 0.9	1.41/ 0.02	10- 69	SUB A/B	0.0		1976	
	3.4/ 0.04	211.9/ 2.1	1.45/ 0.01	1- 60		17.0			
	3.2/ 0.03	1983.7/ 14.2	1.45/ 0.00	10- 327		18.3			
	3.2/ 0.02	2195.6/ 17.1	1.45/ 0.00	1- 327		18.2			
	1.5/ 0.19	50.0/ 2.2	1.47/ 0.02	11- 61		0.0			
	1.5/ 0.19	50.0/ 2.2	1.47/ 0.02	11- 61	SUB C	0.0		1978	
	1.9/ 0.20	70.2/ 3.6	1.40/ 0.02	1- 36		17.3			
	1.1/ 0.08	94.6/ 4.9	1.40/ 0.02	8- 71		0.0			
	2.0/ 0.09	5.2/ 1.3	1.40/ 0.02	30- 52		0.0			
	1.5/ 0.10	161.9/ 6.2	1.40/ 0.01	1- 71	SUB C	17.3		1976	

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
BARRHEAD																
3	LAWTON	SURF	31/	16/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	83/	7/	70	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	29/	4/	21	0.52	17/	3/	11	0.0	0.0	0.0	17/	3/	11	1
		U G THK	20/	5/	10	0.44	9/	2/	4	0.0	0.0	0.0	9/	2/	4	1
			163/	18/	127	0.14	25/	4/	18	0.0	0.0	0.0	25/	4/	18	3
		SURF	218/	27/	163	0.39	81/	8/	64	0.0	<0.1	<0.1	81/	8/	64	
	U G	404/	22/	359	0.05	25/	4/	18	0.0	0.0	0.0	25/	4/	18		
			622/	35/	552	0.16	106/	9/	88	0.0	<0.1	<0.1	106/	9/	88	
BATTLE RIVER																
1	DRIEDMEAT LAKE	SURF	258/	15/	227	0.44	112/	5/	101	0.0	<0.1	<0.1	112/	5/	101	4
		U G THN	332/	30/	273	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	4
		U G MED	323/	25/	272	0.62	200/	16/	168	0.0	0.0	0.0	200/	16/	168	2
			913/	55/	804	0.34	312/	19/	274	0.0	<0.1	<0.1	312/	19/	274	5
2	MEETING CREEK	SURF	111/	11/	90	0.51	60/	7/	45	<0.1	<0.1	<0.1	60/	7/	45	2
		U G THN	272/	16/	241	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	209/	15/	179	0.37	84/	9/	67	0.0	<0.1	<0.1	84/	9/	67	1
		U G THK	46/	6/	35	0.37	19/	3/	13	0.0	0.0	0.0	19/	3/	13	1
			638/	25/	589	0.24	162/	11/	139	<0.1	0.1	0.1	162/	11/	139	3
3	HEISLER	SURF	125/	6/	113	0.65	82/	4/	73	0.0	<0.1	<0.1	82/	4/	73	2
		U G THN	48/	3/	42	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	4/	0/	3	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			177/	7/	163	0.45	82/	4/	73	0.0	0.2	0.2	82/	4/	73	2
4	DONALDA	SURF	80/	12/	57	0.00	15/	7/	0	0.0	<0.1	<0.1	15/	7/	0	2
		U G THN	199/	24/	151	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
		U G MED	116/	23/	71	0.37	41/	7/	27	0.0	<0.1	<0.1	41/	7/	27	1
			395/	35/	325	0.10	56/	11/	34	0.0	<0.1	<0.1	56/	11/	34	3
5	FORESTBURG	SURF	42/	1/	39	0.58	24/	1/	23	15.9	0.3	16.2	8/	1/	7	2
			42/	1/	39	0.58	24/	1/	23	15.9	0.3	16.2	8/	1/	7	2
6	PAINT EARTH CREEK	SURF	373/	6/	381	0.79	294/	4/	286	64.0	0.2	64.3	230/	4/	222	7
		U G THN	476/	13/	450	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	8
		U G MED	81/	4/	73	0.61	50/	3/	44	0.0	0.0	0.0	50/	3/	44	2
			931/	14/	903	0.37	343/	4/	335	64.0	0.3	64.3	279/	4/	271	8
7	CASTOR	SURF	220/	6/	207	0.62	136/	4/	128	0.1	0.3	0.4	136/	4/	127	2
		U G THN	124/	3/	117	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	14/	1/	13	0.22	3/	0/	3	0.0	<0.1	<0.1	3/	0/	3	1
			357/	8/	342	0.39	139/	3/	132	0.1	0.3	0.5	139/	3/	131	2

Plains Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	BE/	SE	BE/	SE	BE/	SE	metres	ASTM	MJ/kg			
	2.6/	1.22	8.1/	1.4	1.45/	0.02	10- 55		0.0			
	0.9/	0.07	63.8/	1.7	1.45/	0.02	16- 90		0.0			
	2.3/	0.23	8.4/	0.7	1.45/	0.02	73- 84		16.0			
	4.4/	0.12	3.0/	0.8	1.45/	0.02	84- 84		16.0			
	1.6/	0.13	70.7/	5.2	1.45/	0.01	10- 90	SUB C	16.0		1976	
	2.0/	0.22	78.2/	4.0	1.41/	0.02	1- 55		17.3			
	1.3/	0.06	208.4/	5.9	1.44/	0.01	8- 90		16.0			
	1.5/	0.07	282.6/	8.4	1.43/	0.01	1- 90		17.0			
	3.5/	0.18	52.8/	1.4	1.39/	0.02	9- 55		18.5			
	1.9/	0.16	119.5/	2.9	1.46/	0.02	13- 125		0.0			
	2.6/	0.18	82.3/	2.3	1.51/	0.02	29- 101		18.5			
	3.5/	0.19	181.9/	4.4	1.45/	0.02	9- 125	SUB C	18.5		1976	
	2.1/	0.19	39.5/	0.9	1.34/	0.02	2- 51		18.3			
	1.3/	0.07	157.3/	3.5	1.33/	0.02	10- 137		0.0			
	2.5/	0.16	63.0/	1.6	1.34/	0.02	27- 124		18.3			
	4.2/	0.26	8.2/	0.8	1.34/	0.02	57- 111		18.3			
	2.3/	0.07	208.8/	4.6	1.34/	0.02	2- 137	SUB C	18.3		1976	
	1.9/	0.08	50.5/	1.3	1.30/	0.02	2- 51		20.0			
	1.0/	0.05	36.3/	0.9	1.32/	0.02	8- 52		0.0			
	1.8/	0.04	1.6/	0.2	1.35/	0.02	22- 30		0.0			
	1.6/	0.04	85.9/	2.1	1.31/	0.02	2- 52	SUB C	20.0		1976	
	2.3/	0.32	26.6/	0.8	1.31/	0.02	5- 47		20.1			
	2.2/	0.26	65.5/	1.6	1.38/	0.02	12- 165		0.0			
	2.8/	0.53	29.6/	1.2	1.40/	0.02	47- 133		17.1			
	3.1/	0.26	92.2/	2.0	1.38/	0.02	5- 165	SUB C	17.8		1976	
	1.8/	0.06	16.7/	0.2	1.37/	0.00	1- 15		17.8			
	1.8/	0.06	16.7/	0.2	1.37/	0.00	1- 15	SUB C	17.8		1984	MINE #1578 - NOT PRODUCING
	2.2/	0.03	127.5/	1.3	1.35/	0.00	2- 60		17.9			
	1.7/	0.03	205.4/	4.3	1.37/	0.01	10- 129		0.0			
	1.9/	0.02	31.5/	1.6	1.39/	0.00	25- 92		17.1			
	2.1/	0.02	317.9/	3.5	1.37/	0.01	2- 129	SUB C	17.6	4	1999	MINES #1046, #1781 - PRODUCING, NEW DEPOSIT
	1.8/	0.04	89.9/	1.4	1.34/	0.01	1- 49		17.7			
	1.0/	0.02	90.2/	1.5	1.34/	0.01	9- 65		0.0			
	1.8/	0.03	5.9/	0.2	1.36/	0.01	16- 52		17.7			
	1.5/	0.02	180.3/	2.3	1.34/	0.01	1- 65	SUB C	17.7		1999	COMBINED WITH FORMER HALKIRK DEPOSIT

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
BATTLE RIVER																
8	SULLIVAN LAKE	SURF	294/	13/	268	0.71	207/	9/	189	<0.1	<0.1	<0.1	207/	9/	189	3
		U G THN	346/	22/	302	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	220/	18/	184	0.59	137/	14/	109	0.0	0.0	0.0	137/	14/	109	1
			859/	31/	797	0.39	344/	16/	310	<0.1	<0.1	<0.1	344/	16/	310	3
		SURF	1501/	28/	1446	0.62	929/	16/	896	80.1	1.0	81.1	848/	16/	815	
		U G	2810/	64/	2682	0.18	533/	24/	484	0.0	0.2	0.2	533/	24/	484	
			4312/	78/	4156	0.34	1462/	31/	1400	80.1	1.2	81.3	1381/	31/	1319	
BLACKFOOT																
1	BLACKFOOT	SURF	163/	9/	144	0.72	116/	7/	103	0.0	0.2	0.2	116/	7/	103	3
		U G THN	70/	9/	53	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	53/	7/	39	0.48	28/	4/	19	0.0	0.0	0.0	28/	4/	19	2
			286/	16/	254	0.50	144/	8/	128	0.0	0.2	0.2	144/	8/	128	3
		SURF	163/	9/	145	0.72	116/	7/	103	0.0	0.2	0.2	116/	7/	103	
		U G	123/	11/	100	0.19	28/	4/	19	0.0	0.0	0.0	28/	4/	19	
			286/	16/	254	0.50	144/	8/	128	0.0	0.2	0.2	144/	8/	128	
BOW ISLAND																
1	NORTH	SURF	12/	2/	9	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	2
		U G THN	76/	6/	64	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	16/	1/	14	0.12	2/	0/	2	0.0	<0.1	<0.1	2/	0/	2	1
			104/	7/	90	0.02	2/	0/	2	<0.1	<0.1	<0.1	2/	0/	2	2
2	WINIFRED	U G THN	108/	11/	87	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	15/	1/	12	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			123/	11/	101	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
3	SOUTH	SURF	22/	2/	17	0.65	14/	1/	11	0.0	<0.1	<0.1	14/	1/	11	2
		U G THN	64/	4/	56	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G MED	5/	2/	2	0.00	2/	1/	0	0.0	0.0	0.0	2/	1/	0	1
			91/	6/	80	0.16	16/	2/	13	0.0	<0.1	<0.1	16/	2/	13	2
		SURF	34/	3/	28	0.40	14/	1/	11	<0.1	<0.1	<0.1	14/	1/	11	
		U G	284/	13/	257	0.01	4/	1/	2	0.0	<0.1	<0.1	4/	1/	2	
			318/	14/	289	0.05	18/	2/	15	<0.1	0.1	0.1	18/	2/	15	
BROOKS																
1	BOW CITY	SURF	160/	4/	152	0.71	113/	3/	107	1.2	<0.1	1.2	112/	3/	106	2
		U G THN	182/	7/	168	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	256/	8/	240	0.53	136/	5/	126	0.0	0.0	0.0	136/	5/	126	1
			598/	8/	582	0.41	249/	5/	240	1.2	<0.1	1.2	246/	5/	238	1
2	LONESOME LAKE	SURF	10/	1/	8	0.27	3/	0/	2	<0.1	<0.1	<0.1	3/	0/	2	2
		U G THN	20/	2/	16	0.01	0/	0/	0	0.0	0.2	0.2	0/	0/	0	2
			31/	2/	27	0.09	3/	0/	2	<0.1	0.2	0.2	3/	0/	2	3
		SURF	170/	4/	162	0.68	116/	3/	110	1.2	<0.1	1.2	115/	3/	109	
		U G	458/	11/	436	0.29	136/	5/	126	0.0	0.2	0.2	136/	5/	126	
			628/	8/	612	0.40	252/	5/	243	1.2	0.2	1.4	251/	5/	241	

Plains Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
	BE/	SE	BE/	SE	BE/	SE						
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
	2.4/	0.09	91.5/	1.8	1.34/	0.02	1- 54		17.8			
	1.7/	0.10	155.1/	3.1	1.31/	0.02	8- 142		0.0			
	2.5/	0.19	63.8/	1.5	1.38/	0.02	24- 137		17.8			
	2.5/	0.06	254.1/	5.1	1.34/	0.02	1- 142	SUB C	17.8		1978	DEPOSIT RENUMBERED
	2.3/	0.04	494.9/	3.7	1.35/	0.01	1- 60		18.2			
	2.4/	0.05	858.9/	6.6	1.38/	0.01	8- 165		18.0			
	2.4/	0.04	1337.9/	10.7	1.37/	0.01	1- 165		18.1			
	3.9/	0.18	28.8/	0.7	1.44/	0.03	5- 55		19.6			
	1.8/	0.21	26.8/	0.9	1.44/	0.05	13- 105		0.0			
	2.7/	0.27	13.4/	0.7	1.46/	0.10	31- 86		19.1			
	3.4/	0.16	58.4/	1.3	1.44/	0.03	5- 105	SUB A/B	19.6		1981	
	3.9/	0.18	28.8/	0.7	1.44/	0.03	5- 55		19.6			
	2.9/	0.22	29.7/	0.9	1.45/	0.05	13- 105		19.1			
	3.4/	0.16	58.4/	1.3	1.44/	0.03	5- 105		19.6			
	1.5/	0.22	6.0/	0.4	1.38/	0.02	3- 26		0.0			
	1.2/	0.08	45.4/	2.0	1.39/	0.02	17- 62		0.0			
	1.6/	0.04	7.1/	0.4	1.37/	0.02	37- 52		19.6			
	1.3/	0.07	57.3/	2.3	1.39/	0.02	3- 62	SUB B	19.6		1976	
	1.3/	0.12	61.2/	1.2	1.36/	0.02	25- 58		0.0			
	1.7/	0.13	6.6/	0.4	1.35/	0.02	31- 36		0.0			
	1.3/	0.11	67.8/	1.4	1.36/	0.02	25- 58	SUB B	0.0		1978	
	1.4/	0.09	11.0/	0.9	1.40/	0.02	5- 29		19.4			
	0.9/	0.05	48.3/	1.6	1.40/	0.02	11- 53		0.0			
	2.0/	0.23	1.8/	0.6	1.40/	0.02	23- 30		19.4			
	1.1/	0.04	61.1/	3.0	1.40/	0.02	5- 53	SUB B	19.4		1976	
	1.4/	0.09	17.0/	1.0	1.39/	0.01	3- 29		19.4			
	1.2/	0.05	169.1/	3.0	1.38/	0.01	11- 62		19.5			
	1.2/	0.05	186.2/	3.9	1.38/	0.01	3- 62		19.4			
	2.4/	0.03	47.4/	1.0	1.39/	0.01	4- 60		20.2			
	1.1/	0.02	116.2/	4.2	1.41/	0.01	16- 139		0.0			
	1.9/	0.03	94.2/	2.4	1.41/	0.00	26- 140		19.9			
	1.8/	0.02	243.4/	2.2	1.40/	0.00	4- 140	SUB A/B	19.9	4	1999	MINE #1802 - UNDEVELOPED, NEW DEPOSIT
	1.2/	0.06	6.1/	0.5	1.46/	0.01	7- 27		18.2			
	1.0/	0.05	14.6/	1.3	1.43/	0.01	13- 63		0.0			
	1.0/	0.04	20.6/	1.1	1.44/	0.01	7- 63	SUB A/B	18.2		1987	
	2.3/	0.03	53.5/	1.1	1.39/	0.01	4- 60		20.1			
	1.5/	0.02	210.6/	4.3	1.41/	0.00	13- 140		19.9			
	1.7/	0.02	264.0/	2.4	1.40/	0.00	4- 140		19.9			

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
BUFFALO HILL																
1	BUFFALO HILL WEST	U G THN	473/	99/	275	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	644/	73/	497	0.68	438/	50/	338	0.0	0.0	0.0	438/	50/	338	2
		U G THK	253/	60/	132	0.49	114/	24/	66	0.0	0.0	0.0	114/	24/	66	1
			1370/	134/	1101	0.40	552/	56/	441	0.0	0.0	0.0	552/	56/	441	5
2	BUFFALO HILL EAST	U G THN	311/	55/	201	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	421/	58/	304	0.61	286/	51/	185	0.0	0.0	0.0	286/	51/	185	2
		U G THK	455/	54/	347	0.37	205/	39/	128	0.0	0.0	0.0	205/	39/	128	1
			1187/	97/	994	0.37	491/	64/	364	0.0	0.0	0.0	491/	64/	364	4
3	VULCAN	U G THN	76/	22/	31	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	108/	29/	50	0.68	73/	20/	34	0.0	0.0	0.0	73/	20/	34	1
			183/	34/	116	0.29	73/	20/	34	0.0	0.0	0.0	73/	20/	34	2
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	2740/	172/	2396	0.39	1115/	87/	942	0.0	0.0	0.0	1115/	87/	942	
		2740/	169/	2402	0.39	1116/	87/	942	0.0	0.0	0.0	1116/	87/	942		
CHAIN LAKES																
1	SPIERS LAKE	U G THN	2/	1/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	17/	6/	4	0.68	11/	4/	3	0.0	0.0	0.0	11/	4/	3	1
			18/	6/	6	0.52	11/	4/	3	0.0	0.0	0.0	11/	4/	3	2
2	PEARL LAKE	SURF	28/	6/	15	0.11	3/	1/	2	0.0	0.0	0.0	3/	1/	2	2
		U G THN	43/	6/	32	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	12/	2/	8	0.54	8/	2/	4	0.0	0.0	0.0	8/	2/	4	1
			83/	9/	65	0.10	11/	2/	7	0.0	0.0	0.0	11/	2/	7	2
3	VICTORIA LAKE	SURF	8/	1/	7	0.14	2/	0/	1	<0.1	<0.1	<0.1	2/	0/	1	1
		U G THN	23/	2/	19	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			30/	2/	26	0.04	2/	0/	1	<0.1	<0.1	<0.1	2/	0/	1	1
		SURF	36/	6/	23	0.14	5/	1/	3	<0.1	<0.1	<0.1	5/	1/	3	
		U G	96/	9/	78	0.13	19/	5/	10	0.0	0.0	0.0	19/	5/	10	
		132/	11/	110	0.13	24/	5/	15	<0.1	<0.1	<0.1	24/	5/	15		
CLEAR HILLS																
1	RAMBLING CREEK	U G THN	13/	3/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	52/	7/	38	0.68	35/	5/	25	0.0	0.0	0.0	35/	5/	25	1
			65/	8/	50	0.51	35/	5/	25	0.0	0.0	0.0	35/	5/	25	1
2	WHITEMUD	U G THN	73/	7/	58	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	56/	8/	41	0.67	38/	5/	28	0.0	0.0	0.0	38/	5/	28	1
			129/	11/	108	0.26	38/	5/	28	0.0	0.0	0.0	38/	5/	28	2
3	SOUTH WHITEMUD	U G THN	76/	7/	61	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			76/	7/	61	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	270/	15/	240	0.25	73/	7/	59	0.0	0.0	0.0	73/	7/	59	
		270/	15/	240	0.24	73/	7/	59	0.0	0.0	0.0	73/	7/	59		

Plains Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	2.0/ 0.41	169.2/ 5.1	1.40/ 0.05	79- 431		0.0			
	3.4/ 0.35	129.4/ 4.9	1.46/ 0.05	120- 446		19.7			
	4.4/ 0.70	40.3/ 3.5	1.41/ 0.22	304- 340		21.1			
	5.1/ 0.25	187.2/ 2.2	1.43/ 0.12	79- 446	SUB A	20.0		1981	
	2.1/ 0.36	104.5/ 3.8	1.43/ 0.04	65- 359		0.0			
	3.3/ 0.35	87.7/ 7.2	1.46/ 0.05	67- 367		19.1			
	6.4/ 0.72	50.2/ 2.0	1.41/ 0.01	214- 304		20.5			
	6.6/ 0.18	125.8/ 6.9	1.43/ 0.04	65- 367	SUB A	19.9		1984	
	1.2/ 0.28	45.7/ 4.3	1.39/ 0.20	161- 375		0.0			
	2.0/ 0.35	39.7/ 5.4	1.37/ 0.21	170- 378		23.4			
	1.6/ 0.22	82.0/ 5.2	1.38/ 0.15	161- 378	SUB A	23.4		1983	
	0.0/ 0.00	0.0/ 0.0	0.00/ 0.00			0.0			
	4.9/ 0.14	395.0/ 9.8	1.43/ 0.06	65- 446		20.1			
	4.9/ 0.14	395.0/ 9.8	1.43/ 0.06	65- 446		20.2			
	0.6/ 0.07	1.6/ 0.5	1.43/ 0.03	50- 55		0.0			
	2.6/ 0.46	4.6/ 1.5	1.39/ 0.07	65- 105		17.4			
	2.1/ 0.47	6.2/ 1.6	1.39/ 0.07	50- 105	SUB C	17.4		1983	
	2.3/ 0.50	8.1/ 0.6	1.50/ 0.02	8- 30		14.5			
	1.4/ 0.17	21.2/ 1.3	1.50/ 0.02	12- 46		0.0			
	2.5/ 0.21	3.2/ 0.4	1.50/ 0.02	21- 46		14.5			
	1.8/ 0.16	31.1/ 1.8	1.50/ 0.01	8- 46	SUB C	14.5		1976	
	1.1/ 0.06	4.7/ 0.3	1.45/ 0.02	5- 19		16.6			
	0.9/ 0.04	16.9/ 1.0	1.45/ 0.02	11- 55		0.0			
	1.0/ 0.04	21.6/ 1.1	1.45/ 0.02	5- 55	SUB C	16.6		1976	
	1.9/ 0.32	12.9/ 0.8	1.49/ 0.02	5- 30		15.3			
	1.4/ 0.09	46.1/ 3.1	1.47/ 0.02	11- 105		16.2			
	1.5/ 0.10	59.0/ 3.1	1.47/ 0.01	5- 105		16.0			
	1.1/ 0.17	9.4/ 1.2	1.27/ 0.01	13- 54		0.0			
	2.0/ 0.17	19.7/ 2.1	1.28/ 0.01	24- 102		14.9			
	1.7/ 0.13	29.1/ 2.6	1.28/ 0.00	13- 102	LIG A	14.9		1989	
	1.2/ 0.10	46.4/ 2.1	1.31/ 0.05	12- 79		0.0			
	1.9/ 0.11	23.5/ 2.9	1.30/ 0.00	23- 86		14.6			
	1.4/ 0.07	69.1/ 4.1	1.30/ 0.03	12- 86	LIG A	14.6		1989	
	0.9/ 0.06	65.0/ 4.2	1.33/ 0.03	11- 52		0.0			
	0.9/ 0.06	65.0/ 4.2	1.33/ 0.03	11- 52	LIG A	0.0		1989	
	0.0/ 0.00	0.0/ 0.0	0.00/ 0.00			0.0			
	1.3/ 0.05	163.2/ 6.6	1.31/ 0.02	11- 102		14.7			
	1.3/ 0.05	163.2/ 6.6	1.30/ 0.02	11- 102		14.7			

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
DRUMHELLER																
1	MORRIN	U G THN	136/	32/	73	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G MED	59/	30/	0	0.00	40/	20/	0	0.0	0.0	0.0	40/	20/	0	2
			195/	45/	106	0.00	40/	20/	0	0.0	0.0	0.0	40/	20/	0	9
2	MUNSON	SURF	10/	3/	3	0.14	0/	0/	0	0.2	0.2	0.4	0/	0/	0	2
		U G THN	658/	43/	572	0.01	5/	0/	5	0.0	5.5	5.5	0/	0/	0	5
		U G MED	436/	28/	379	0.64	292/	25/	243	0.0	5.5	5.5	286/	25/	237	2
		U G THK	101/	32/	37	0.45	45/	14/	17	0.0	0.0	0.0	45/	14/	17	1
			1205/	70/	1064	0.27	343/	29/	286	0.2	11.2	11.4	332/	29/	275	6
3	KNEEHILL	SURF	32/	3/	26	0.18	5/	0/	5	<0.1	4.8	4.8	0/	0/	0	2
		U G THN	53/	4/	45	0.12	5/	0/	5	0.0	5.3	5.3	0/	0/	0	2
		U G MED	35/	2/	31	0.47	17/	1/	15	0.0	4.7	4.7	12/	1/	10	1
			120/	5/	110	0.22	27/	1/	25	<0.1	14.9	14.9	12/	1/	10	2
4	ELADESOR	U G THN	330/	29/	272	0.01	4/	0/	4	0.0	3.6	3.6	0/	0/	0	4
		U G MED	206/	15/	176	0.61	126/	9/	107	0.0	2.7	2.7	123/	9/	104	1
			536/	33/	471	0.24	129/	9/	111	0.0	6.4	6.4	123/	9/	104	4
5	ROSEDALE	SURF	10/	1/	8	0.41	5/	1/	3	0.2	0.2	0.4	4/	1/	3	2
		U G THN	40/	3/	34	0.01	0/	0/	0	0.0	0.4	0.4	0/	0/	0	2
		U G MED	80/	3/	73	0.59	48/	2/	43	0.0	5.6	5.6	42/	2/	38	1
			131/	7/	118	0.41	53/	3/	48	0.2	6.2	6.5	47/	3/	42	2
6	MCCONNELL COULEE	SURF	6/	2/	3	0.01	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	13/	2/	10	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			19/	2/	14	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	2
7	EAST COULEE	SURF	1/	0/	1	0.19	0/	0/	0	0.0	0.2	0.2	0/	0/	0	1
		U G THN	69/	16/	37	0.03	1/	0/	1	0.0	1.1	1.1	0/	0/	0	3
		U G MED	48/	3/	41	0.06	2/	0/	2	0.0	2.4	2.4	0/	0/	0	1
			118/	16/	85	0.04	4/	0/	4	0.0	3.7	3.7	0/	0/	0	3
8	WESTERN MONARCH	SURF	1/	0/	0	0.11	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	1
		U G THN	115/	10/	95	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	109/	5/	99	0.54	60/	4/	53	0.0	10.4	10.4	50/	4/	43	1
			225/	11/	203	0.26	60/	4/	53	<0.1	10.4	10.4	50/	4/	43	3
9	DELIA	SURF	17/	2/	12	0.89	14/	2/	11	<0.1	<0.1	<0.1	14/	2/	11	2
		U G THN	5/	1/	2	0.01	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			21/	3/	16	0.89	14/	2/	11	<0.1	<0.1	<0.1	14/	2/	11	2
10	NORTH HANDHILLS	SURF	14/	3/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	113/	25/	64	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
			127/	25/	77	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3

Plains Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	5.5/ 0.76	17.4/ 3.2	1.43/ 0.06	65- 285		0.0			
	3.6/ 1.63	10.9/ 2.1	1.50/ 0.10	170- 186		17.5			
	7.7/ 1.05	17.4/ 3.2	1.45/ 0.04	65- 285	SUB B	17.5		1976	
	1.8/ 0.58	3.9/ 0.3	1.38/ 0.16	4- 27		0.0			
	3.5/ 0.20	133.2/ 3.1	1.43/ 0.03	15- 298		0.0			
	3.1/ 0.17	94.8/ 2.3	1.49/ 0.04	27- 225		17.5			
	4.2/ 0.50	16.5/ 2.8	1.47/ 0.35	65- 220		18.5			
	5.7/ 0.28	145.8/ 3.4	1.46/ 0.03	4- 298	SUB B	17.7		1976	
	2.0/ 0.17	11.4/ 0.3	1.38/ 0.03	2- 23		0.0			
	1.4/ 0.10	26.4/ 0.7	1.41/ 0.03	30- 217		0.0			
	1.9/ 0.07	12.5/ 0.3	1.44/ 0.06	27- 168		19.3			
	1.7/ 0.05	49.1/ 1.2	1.41/ 0.03	2- 217	SUB B	19.3		1976	
	2.6/ 0.17	87.0/ 4.7	1.44/ 0.03	34- 272		0.0			
	2.5/ 0.08	57.4/ 3.1	1.47/ 0.06	61- 154		18.4			
	3.2/ 0.07	115.1/ 6.1	1.45/ 0.03	34- 272	SUB B	18.4		1976	
	1.8/ 0.08	3.9/ 0.1	1.45/ 0.11	4- 24		18.6			
	1.2/ 0.08	24.4/ 0.8	1.39/ 0.06	61- 152		0.0			
	2.1/ 0.04	27.2/ 0.7	1.43/ 0.04	34- 122		19.1			
	1.7/ 0.06	55.4/ 1.4	1.42/ 0.04	4- 152	SUB B	19.1		1976	
	1.0/ 0.03	3.8/ 1.0	1.40/ 0.03	15- 15		0.0			
	1.2/ 0.06	8.2/ 1.0	1.38/ 0.10	61- 91		0.0			
	1.1/ 0.04	12.0/ 1.3	1.39/ 0.08	15- 91	SUB B	0.0		1976	
	1.5/ 0.02	0.6/ 0.1	1.38/ 0.02	7- 7		0.0			
	2.0/ 0.45	24.5/ 0.9	1.37/ 0.05	46- 199		0.0			
	1.9/ 0.05	18.3/ 0.6	1.41/ 0.08	53- 91		0.0			
	2.5/ 0.29	34.3/ 1.0	1.39/ 0.04	7- 199	SUB B	0.0		1976	
	2.0/ 0.21	0.2/ 0.1	1.40/ 0.09	15- 15		0.0			
	2.0/ 0.15	40.4/ 1.1	1.40/ 0.04	35- 264		0.0			
	2.0/ 0.05	40.1/ 1.0	1.38/ 0.04	100- 255		20.7			
	2.3/ 0.08	69.4/ 1.7	1.39/ 0.03	15- 264	SUB B	20.7		1976	
	1.6/ 0.11	7.5/ 0.8	1.39/ 0.08	4- 34		19.3			
	1.5/ 0.31	2.3/ 0.3	1.40/ 0.16	21- 37		0.0			
	1.6/ 0.11	9.8/ 1.1	1.40/ 0.07	4- 37	SUB B	19.3		1976	
	1.6/ 0.16	6.0/ 0.8	1.39/ 0.24	13- 28		0.0			
	1.7/ 0.35	47.7/ 2.0	1.39/ 0.08	13- 147		0.0			
	1.7/ 0.32	53.6/ 2.2	1.39/ 0.06	13- 147	SUB B/C	0.0		1976	

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
DRUMHELLER																
11	LITTLE FISH LAKE	U G THN	78/	14/	50	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			78/	14/	50	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
12	CIRCUS COULEE	SURF	13/	5/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	98/	13/	73	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	41/	7/	26	0.44	16/	2/	12	0.0	0.0	0.0	16/	2/	12	1
			152/	16/	121	0.09	16/	2/	12	0.0	0.0	0.0	16/	2/	12	3
13	EAST HANDHILLS	SURF	52/	5/	43	0.83	43/	4/	36	<0.1	<0.1	<0.1	43/	4/	36	2
		U G THN	63/	4/	54	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
		U G MED	2/	1/	0	0.50	1/	0/	0	0.0	0.0	0.0	1/	0/	0	1
			117/	6/	105	0.38	44/	2/	40	<0.1	<0.1	<0.1	44/	2/	40	3
		SURF	154/	9/	136	0.43	67/	4/	59	0.5	5.4	5.9	61/	4/	53	
		U G	2889/	90/	2709	0.22	663/	36/	590	0.0	47.4	47.4	616/	36/	543	
			3043/	97/	2848	0.23	730/	37/	657	0.5	52.8	53.3	677/	37/	604	
EAST BROOKS																
1	EAST BROOKS	SURF	215/	8/	199	0.72	156/	6/	144	0.0	0.0	0.0	156/	6/	144	3
		U G THN	56/	4/	47	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G MED	7/	1/	4	0.67	5/	1/	3	0.0	0.0	0.0	5/	1/	3	1
			277/	9/	260	0.57	160/	6/	149	0.0	0.0	0.0	160/	6/	149	3
		SURF	215/	8/	199	0.72	156/	6/	144	0.0	0.0	0.0	156/	6/	144	
		U G	62/	4/	54	0.05	5/	1/	3	0.0	0.0	0.0	5/	1/	3	
			277/	9/	259	0.57	160/	6/	149	0.0	0.0	0.0	160/	6/	149	
EAST EDMONTON																
1	ARDROSSAN	SURF	260/	11/	238	0.70	183/	8/	167	<0.1	0.0	<0.1	183/	8/	167	10
		U G THN	474/	26/	422	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	10/	3/	4	0.18	5/	2/	1	0.0	0.0	0.0	5/	2/	1	1
			743/	25/	692	0.25	188/	8/	172	<0.1	0.0	<0.1	188/	8/	172	11
2	COOKING LAKE	SURF	24/	12/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	849/	83/	683	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	719/	76/	568	0.63	452/	47/	359	0.0	0.0	0.0	452/	47/	359	2
		U G THK	113/	41/	30	0.45	51/	18/	14	0.0	0.0	0.0	51/	18/	14	1
			1705/	119/	1466	0.27	503/	52/	399	0.0	0.0	0.0	503/	52/	399	6
		SURF	284/	16/	251	0.66	183/	8/	167	<0.1	0.0	<0.1	183/	8/	167	
		U G	2164/	122/	1919	0.21	508/	50/	408	0.0	0.0	0.0	508/	50/	408	
			2448/	122/	2204	0.27	691/	52/	586	<0.1	0.0	<0.1	691/	52/	586	
EDMONTON																
1	EDMONTON	SURF	12/	1/	9	0.29	3/	0/	3	0.0	2.7	2.7	0/	0/	0	3
		U G THN	28/	3/	23	0.29	6/	0/	6	0.0	6.5	6.5	0/	0/	0	3
		U G MED	17/	2/	14	0.29	4/	0/	4	0.0	4.0	4.0	0/	0/	0	2
			57/	3/	51	0.26	13/	0/	13	0.0	13.2	13.2	0/	0/	0	4
		SURF	12/	1/	9	0.29	3/	0/	3	0.0	2.7	2.7	0/	0/	0	
		U G	46/	3/	39	0.27	10/	0/	10	0.0	10.4	10.4	0/	0/	0	
			57/	3/	51	0.26	13/	0/	13	0.0	13.2	13.2	0/	0/	0	

Plains Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
	BE/	SE	BE/	SE	BE/	SE						
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
	1.4/	0.22	38.5/	2.1	1.43/	0.08	18- 133		0.0			
	1.4/	0.22	38.5/	2.1	1.43/	0.08	18- 133	SUB B	0.0		1976	
	1.7/	0.50	5.8/	1.0	1.37/	0.02	8- 13		0.0			
	1.6/	0.17	44.7/	2.1	1.41/	0.08	14- 132		0.0			
	2.6/	0.19	11.3/	0.8	1.40/	0.21	28- 74		20.0			
	2.1/	0.17	50.8/	2.3	1.40/	0.07	8- 132	SUB B/C	20.0		1976	
	1.7/	0.04	21.4/	1.7	1.44/	0.03	1- 60		16.3			
	1.0/	0.03	44.3/	2.7	1.43/	0.04	11- 81		0.0			
	1.8/	0.03	0.6/	0.3	1.45/	0.02	42- 46		16.3			
	1.3/	0.03	63.2/	2.5	1.43/	0.03	1- 81	SUB C	16.3		1985	
	1.7/	0.07	64.5/	2.4	1.41/	0.03	1- 60		17.1			
	3.1/	0.08	652.5/	10.0	1.44/	0.02	11- 298		18.2			
	3.0/	0.07	714.4/	12.9	1.44/	0.01	1- 298		18.2			
	1.8/	0.06	83.2/	1.3	1.42/	0.01	2- 29		18.5			
	1.0/	0.06	40.0/	1.6	1.44/	0.01	15- 38		0.0			
	1.6/	0.06	2.9/	0.5	1.41/	0.00	25- 36		19.3			
	1.5/	0.04	126.1/	1.5	1.43/	0.00	2- 38	SUB B	18.5		1988	
	1.8/	0.06	83.2/	1.3	1.42/	0.01	2- 29		18.5			
	1.0/	0.06	42.9/	1.7	1.44/	0.01	15- 38		19.3			
	1.5/	0.04	126.1/	1.5	1.43/	0.00	2- 38		18.5			
	3.1/	0.07	60.6/	2.1	1.37/	0.01	1- 60		17.8			
	1.9/	0.07	185.1/	6.8	1.37/	0.01	13- 90		0.0			
	1.8/	0.13	3.9/	1.1	1.40/	0.01	30- 47		17.3			
	2.3/	0.06	234.1/	4.9	1.37/	0.01	1- 90	SUB C	17.8		1988	
	1.4/	0.62	12.3/	1.7	1.39/	0.25	9- 17		0.0			
	3.3/	0.24	182.9/	10.2	1.43/	0.05	32- 189		0.0			
	3.1/	0.25	156.0/	8.9	1.47/	0.05	37- 156		17.1			
	3.8/	0.63	20.5/	5.2	1.44/	0.29	84- 111		17.1			
	6.5/	0.24	182.9/	10.2	1.44/	0.03	9- 189	SUB B/C	17.1		1976	
	2.8/	0.12	72.9/	2.4	1.37/	0.02	1- 60		17.8			
	4.1/	0.17	368.0/	12.1	1.43/	0.03	13- 189		17.1			
	4.1/	0.11	417.0/	16.5	1.42/	0.02	1- 189		17.3			
	4.5/	0.26	1.9/	0.1	1.40/	0.08	2- 60		0.0			
	4.0/	0.23	5.1/	0.3	1.40/	0.08	13- 90		0.0			
	4.0/	0.23	3.1/	0.2	1.40/	0.08	20- 90		0.0			
	5.0/	0.17	8.2/	0.3	1.40/	0.05	2- 90	SUB B/C	0.0		1993	
	4.5/	0.26	1.9/	0.1	1.40/	0.08	2- 60		0.0			
	5.1/	0.22	6.3/	0.3	1.40/	0.06	13- 90		0.0			
	5.0/	0.17	8.2/	0.3	1.40/	0.05	2- 90		0.0			

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used	
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb		
No.	Name	megatonnes					megatonnes										
EDSON RIVER																	
1	EDSON RIVER	U G THN	1509/	33/	1442	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	10	
		U G MED	651/	33/	587	0.67	439/	22/	396	0.0	0.0	0.0	439/	22/	396	2	
			2160/	47/	2067	0.19	439/	22/	396	0.0	0.0	0.0	439/	22/	396	11	
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0		
		U G	2160/	47/	2067	0.19	439/	22/	395	0.0	0.0	0.0	439/	22/	395		
			2160/	47/	2067	0.19	439/	22/	395	0.0	0.0	0.0	439/	22/	395		
FIREBAG																	
1	FIREBAG	U G THN	38/	5/	27	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8	
		U G MED	88/	12/	65	0.31	33/	6/	20	0.0	0.0	0.0	33/	6/	20	6	
		U G THK	104/	32/	40	0.22	20/	5/	9	0.0	0.0	0.0	20/	5/	9	4	
			230/	35/	161	0.23	53/	8/	36	0.0	0.0	0.0	53/	8/	36	8	
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0		
		U G	230/	35/	161	0.22	53/	8/	36	0.0	0.0	0.0	53/	8/	36		
			230/	35/	161	0.23	53/	8/	36	0.0	0.0	0.0	53/	8/	36		
FOX CREEK																	
1	ANTE CREEK	U G THN	159/	19/	121	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3	
			159/	19/	121	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3	
2	WASKAHIGAN RIVER	U G THN	337/	30/	276	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3	
			337/	30/	276	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3	
3	IOSEGUN LAKE	SURF	165/	10/	146	0.81	133/	7/	118	0.0	0.0	0.0	133/	7/	118	5	
		U G THN	572/	22/	527	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6	
		U G MED	106/	11/	83	0.64	66/	6/	53	0.0	0.0	0.0	66/	6/	53	1	
			843/	24/	796	0.23	199/	9/	181	0.0	0.0	0.0	199/	9/	181	7	
4	MEEKWAP LAKE	SURF	500/	10/	481	0.83	414/	8/	398	0.0	0.0	0.0	414/	8/	398	9	
		U G THN	320/	11/	298	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8	
		U G MED	5/	1/	2	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1	
			825/	12/	800	0.50	414/	8/	398	0.0	0.0	0.0	414/	8/	398	10	
5	GOOSE RIVER	SURF	128/	8/	112	0.73	94/	6/	82	0.0	0.0	0.0	94/	6/	82	5	
		U G THN	263/	14/	236	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4	
		U G MED	116/	8/	100	0.67	78/	6/	67	0.0	0.0	0.0	78/	6/	67	1	
			508/	16/	477	0.33	172/	7/	158	0.0	0.0	0.0	172/	7/	158	5	
		SURF	794/	16/	762	0.81	642/	12/	617	0.0	0.0	0.0	642/	12/	617		
		U G	1879/	48/	1783	0.07	144/	8/	127	0.0	0.0	0.0	144/	8/	127		
			2672/	47/	2578	0.29	785/	14/	757	0.0	0.0	0.0	785/	14/	757		
GARDEN PLAIN																	
1	GARDEN PLAIN	SURF	64/	4/	57	0.73	48/	3/	41	<0.1	<0.1	<0.1	48/	3/	41	1	
		U G THN	17/	1/	15	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1	
			81/	4/	74	0.56	48/	3/	41	<0.1	<0.1	<0.1	48/	3/	41	1	
		SURF	64/	4/	57	0.73	48/	3/	42	<0.1	<0.1	<0.1	48/	3/	41		
		U G	17/	1/	15	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0		
			81/	4/	74	0.56	48/	3/	42	<0.1	<0.1	<0.1	48/	3/	41		

Plains Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
9.4/	0.18	110.4/	1.2	1.46/ 0.00	330- 600	0.0			
4.1/	0.18	110.4/	2.4	1.43/ 0.01	355- 590	21.3			
13.5/	0.26	110.4/	1.1	1.45/ 0.00	330- 600	SUB A 21.3	4	1993	
0.0/	0.00	0.0/	0.0	0.00/ 0.00		0.0			
13.5/	0.26	110.4/	1.1	1.45/ 0.00	330- 600	21.3			
13.5/	0.26	110.4/	1.1	1.45/ 0.00	330- 600	21.3			
2.1/	0.28	12.6/	0.6	1.43/ 0.02	55- 121	0.0			
5.4/	0.67	10.9/	0.5	1.49/ 0.02	47- 126	15.0			
14.3/	4.30	5.2/	0.3	1.39/ 0.02	53- 103	15.0			
11.2/	0.83	14.3/	1.9	1.44/ 0.01	47- 126	LIG A 15.0	3	1978	BITUMEN IMPREGNATED
0.0/	0.00	0.0/	0.0	0.00/ 0.00		0.0			
11.2/	0.83	14.3/	1.9	1.43/ 0.01	47- 126	15.0			
11.2/	0.83	14.3/	1.9	1.44/ 0.01	47- 126	15.0			
1.2/	0.08	95.8/	6.7	1.38/ 0.09	12- 105	0.0			
1.2/	0.08	95.8/	6.7	1.38/ 0.09	12- 105	SUB B 0.0	3	1999	NEW DEPOSIT
1.1/	0.09	206.2/	9.9	1.43/ 0.02	16- 227	0.0			
1.1/	0.09	206.2/	9.9	1.43/ 0.02	16- 227	SUB B 0.0	3	1999	NEW DEPOSIT
2.6/	0.06	45.1/	2.3	1.41/ 0.01	3- 60	16.9			
1.7/	0.05	234.1/	6.6	1.40/ 0.01	16- 265	0.0			
1.6/	0.07	45.3/	4.5	1.43/ 0.01	42- 150	17.2			
2.2/	0.04	277.9/	5.6	1.41/ 0.01	3- 265	SUB B 17.2	3	1999	NEW DEPOSIT
3.2/	0.04	113.4/	1.5	1.38/ 0.00	4- 60	16.7			
1.8/	0.03	132.2/	3.8	1.38/ 0.01	12- 186	0.0			
1.5/	0.04	2.4/	0.7	1.34/ 0.01	24- 120	0.0			
2.5/	0.03	242.9/	2.4	1.38/ 0.01	4- 186	SUB B/C 16.7	3	1999	NEW DEPOSIT
1.9/	0.06	46.7/	2.6	1.41/ 0.01	1- 52	15.7			
1.3/	0.05	143.4/	4.9	1.40/ 0.01	11- 200	0.0			
2.0/	0.09	41.6/	2.2	1.41/ 0.01	25- 122	16.2			
1.8/	0.04	200.0/	3.8	1.40/ 0.01	1- 200	SUB C 16.0	3	1999	DEPOSIT RENUMBERED
2.8/	0.03	205.3/	3.3	1.39/ 0.00	1- 60	16.6			
1.6/	0.03	821.6/	13.5	1.40/ 0.01	11- 265	16.6			
1.9/	0.02	1022.9/	11.0	1.40/ 0.01	1- 265	16.6			
1.2/	0.05	35.3/	1.2	1.51/ 0.02	2- 26	16.6			
0.9/	0.05	13.8/	0.6	1.40/ 0.02	13- 32	0.0			
1.1/	0.03	49.1/	1.6	1.49/ 0.02	2- 32	SUB C 16.6		1979	
1.2/	0.05	35.3/	1.2	1.51/ 0.02	2- 26	16.6			
0.9/	0.05	13.8/	0.6	1.40/ 0.02	13- 32	0.0			
1.1/	0.03	49.1/	1.6	1.49/ 0.02	2- 32	16.6			

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
GRASSY LAKE																
1	GRASSY LAKE	SURF	110/	10/	90	0.86	91/	6/	78	0.4	<0.1	0.4	90/	6/	77	3
		U G THN	35/	5/	26	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
			145/	11/	123	0.63	91/	6/	78	0.4	<0.1	0.4	90/	6/	77	4
		SURF	110/	10/	90	0.86	91/	6/	78	0.4	<0.1	0.4	90/	6/	77	
		U G	35/	5/	26	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			145/	11/	123	0.63	91/	6/	78	0.4	<0.1	0.4	90/	6/	77	
HUSSAR																
1	CHANCELLOR	U G THN	586/	21/	544	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
		U G MED	135/	7/	120	0.66	88/	4/	79	0.0	0.0	0.0	88/	4/	79	2
			720/	22/	677	0.12	88/	4/	79	0.0	0.0	0.0	88/	4/	79	8
2	CROWFOOT CREEK	SURF	82/	5/	71	0.56	49/	4/	40	0.0	0.0	0.0	49/	4/	40	3
		U G THN	506/	12/	483	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	7
		U G MED	336/	12/	312	0.66	222/	8/	206	0.0	0.0	0.0	222/	8/	206	5
		U G THK	49/	4/	40	0.60	28/	2/	24	0.0	0.0	0.0	28/	2/	24	1
			972/	16/	941	0.30	298/	8/	282	0.0	0.0	0.0	298/	8/	282	10
		SURF	82/	5/	71	0.56	49/	4/	40	0.0	0.0	0.0	49/	4/	40	
		U G	1611/	28/	1555	0.21	337/	9/	319	0.0	0.0	0.0	337/	9/	319	
			1693/	27/	1639	0.22	386/	9/	368	0.0	0.0	0.0	386/	9/	368	
LESSER SLAVE LAKE																
1	LESSER SLAVE LAKE	SURF	84/	7/	69	0.55	46/	4/	38	0.0	0.0	0.0	46/	4/	38	5
		U G THN	105/	9/	88	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		U G MED	7/	1/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			196/	12/	173	0.22	46/	4/	38	0.0	0.0	0.0	46/	4/	38	6
		SURF	84/	7/	69	0.55	46/	4/	38	0.0	0.0	0.0	46/	4/	38	
		U G	112/	9/	95	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			196/	12/	173	0.22	46/	4/	38	0.0	0.0	0.0	46/	4/	38	
LETHBRIDGE																
1	PICTURE BUTTE	SURF	17/	2/	13	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G THN	307/	12/	282	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	4
		U G MED	615/	17/	582	0.57	350/	9/	331	0.0	4.4	4.4	345/	9/	327	1
			939/	20/	900	0.37	350/	9/	331	0.0	4.4	4.4	345/	9/	327	4
2	COALHURST	U G THN	35/	1/	33	0.12	4/	0/	4	0.0	4.0	4.0	0/	0/	0	1
		U G MED	250/	5/	240	0.59	145/	2/	141	0.0	3.8	3.8	141/	2/	137	1
			285/	5/	276	0.53	149/	2/	145	0.0	7.8	7.8	141/	2/	137	1
3	HARDIEVILLE	SURF	3/	1/	1	0.37	0/	0/	0	0.0	0.4	0.4	0/	0/	0	1
		U G THN	49/	2/	46	0.19	9/	0/	9	0.0	8.7	8.7	0/	0/	0	1
		U G MED	11/	1/	8	0.23	2/	0/	2	0.0	1.9	1.9	0/	0/	0	1
			62/	2/	59	0.19	11/	0/	11	0.0	11.1	11.1	0/	0/	0	1
		SURF	19/	2/	15	0.03	0/	0/	0	0.0	0.4	0.4	0/	0/	0	
		U G	1267/	21/	1224	0.40	510/	10/	490	0.0	22.8	22.8	487/	10/	468	
			1286/	20/	1246	0.39	510/	10/	491	0.0	23.3	23.3	487/	10/	468	

Plains Region

Avg Dip	Aggregate Avg Thickness	Map Area	Density Used	Depth Range	Rank	As Mined	Land Catg	Year Calc	Remarks
deg	metres	sq km	Vcubic m	metres	ASTM	MJ/kg			
	2.1/ 0.13	34.3/ 2.1	1.52/ 0.04	1- 40		17.4			
	1.1/ 0.07	20.7/ 2.2	1.52/ 0.07	10- 40		0.0			
	1.8/ 0.09	54.0/ 2.3	1.52/ 0.05	1- 40	SUB A/B	17.4		1983	
	2.1/ 0.13	34.3/ 2.1	1.52/ 0.04	1- 40		17.4			
	1.1/ 0.07	20.7/ 2.2	1.52/ 0.07	10- 40		0.0			
	1.8/ 0.09	54.0/ 2.3	1.52/ 0.05	1- 40		17.4			
	2.1/ 0.06	193.1/ 3.9	1.45/ 0.01	17- 191		0.0			
	1.9/ 0.07	51.2/ 2.0	1.41/ 0.01	94- 157		20.9			
	2.6/ 0.06	194.8/ 3.1	1.44/ 0.01	17- 191	SUB A/B	20.9		1987	
	3.3/ 0.11	16.8/ 0.9	1.48/ 0.01	22- 59		18.6			
	2.6/ 0.04	136.9/ 1.8	1.45/ 0.01	28- 236		0.0			
	3.3/ 0.08	69.9/ 1.8	1.45/ 0.01	40- 231		19.6			
	4.1/ 0.13	8.2/ 0.6	1.44/ 0.00	60- 153		20.1			
	4.5/ 0.05	150.4/ 1.5	1.45/ 0.01	22- 236	SUB A/B	19.6		1987	
	3.3/ 0.11	16.8/ 0.9	1.48/ 0.01	22- 59		18.6			
	3.4/ 0.04	331.7/ 3.6	1.45/ 0.01	17- 236		20.0			
	3.4/ 0.04	345.2/ 3.1	1.45/ 0.01	17- 236		19.9			
	1.8/ 0.15	34.5/ 1.0	1.35/ 0.02	2- 39		13.9			
	1.2/ 0.09	61.8/ 1.6	1.42/ 0.02	10- 81		0.0			
	1.6/ 0.09	3.2/ 0.5	1.41/ 0.02	31- 57		0.0			
	1.6/ 0.08	88.2/ 2.2	1.39/ 0.02	2- 81	LIG A	13.9	3	1978	
	1.8/ 0.15	34.5/ 1.0	1.35/ 0.02	2- 39		13.9			
	1.3/ 0.09	61.8/ 1.6	1.42/ 0.02	10- 81		0.0			
	1.6/ 0.08	88.2/ 2.2	1.39/ 0.02	2- 81		13.9			
	2.2/ 0.05	5.1/ 0.5	1.48/ 0.00	20- 43		0.0			
	1.2/ 0.03	181.8/ 5.5	1.46/ 0.01	33- 346		0.0			
	2.1/ 0.05	201.0/ 2.4	1.45/ 0.00	28- 310		22.1			
	1.9/ 0.03	336.6/ 3.4	1.45/ 0.00	20- 346	H-V C	22.1		1987	
	1.4/ 0.03	18.2/ 0.5	1.41/ 0.00	35- 182		0.0			
	1.8/ 0.02	95.5/ 1.3	1.45/ 0.00	25- 286		23.0			
	1.7/ 0.02	113.7/ 1.3	1.44/ 0.00	25- 286	H-V C	23.0		1987	
	1.4/ 0.04	1.3/ 0.3	1.43/ 0.00	3- 23		0.0			
	1.3/ 0.04	25.4/ 0.5	1.43/ 0.01	25- 133		0.0			
	1.6/ 0.04	4.5/ 0.5	1.47/ 0.00	28- 116		0.0			
	1.4/ 0.03	31.2/ 0.6	1.44/ 0.01	3- 133	H-V C	0.0		1987	
	2.0/ 0.04	6.4/ 0.6	1.47/ 0.00	3- 43		0.0			
	1.8/ 0.03	475.1/ 4.7	1.45/ 0.00	25- 346		22.4			
	1.8/ 0.02	481.5/ 3.7	1.45/ 0.00	3- 346		22.4			

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
MAYERTHORPE																
1	BLUE RIDGE	SURF	6/	1/	3	0.80	4/	1/	2	<0.1	0.0	<0.1	4/	1/	2	1
		U G THN	405/	23/	358	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	122/	13/	96	0.55	70/	8/	53	0.0	0.0	0.0	70/	8/	53	1
			532/	24/	484	0.12	74/	7/	59	<0.1	0.0	<0.1	74/	7/	59	4
2	ANSELMO	SURF	54/	4/	46	0.79	43/	3/	37	<0.1	<0.1	<0.1	43/	3/	37	2
		U G THN	487/	21/	444	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	72/	7/	58	0.66	48/	4/	39	0.0	0.0	0.0	48/	4/	39	2
			613/	21/	572	0.14	91/	5/	81	<0.1	<0.1	<0.1	91/	5/	81	3
3	RANGETON	SURF	35/	4/	27	0.84	29/	3/	23	0.0	<0.1	<0.1	29/	3/	23	2
		U G THN	607/	27/	552	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	364/	17/	328	0.67	245/	12/	221	0.0	0.0	0.0	245/	12/	221	3
			1005/	30/	944	0.27	275/	12/	250	0.0	<0.1	<0.1	275/	12/	250	5
4	PARK COURT	SURF	161/	8/	144	0.80	129/	7/	115	0.1	<0.1	0.1	129/	7/	115	3
		U G THN	177/	10/	156	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	593/	35/	524	0.68	400/	24/	353	0.0	0.0	0.0	400/	24/	353	2
		U G THK	603/	31/	540	0.64	370/	13/	343	0.0	0.0	0.0	370/	13/	343	1
		1534/	41/	1452	0.59	899/	22/	856	0.1	<0.1	0.1	899/	22/	856	5	
5	EVANSBURG	U G THN	316/	16/	283	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	1181/	52/	1076	0.63	739/	31/	678	0.0	1.8	1.8	738/	31/	676	2
		U G THK	289/	27/	235	0.62	172/	13/	146	0.0	0.0	0.0	172/	13/	146	1
			1785/	57/	1670	0.51	911/	31/	849	0.0	1.8	1.8	910/	31/	848	6
6	CHIP LAKE	U G THN	332/	35/	262	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	349/	30/	290	0.67	236/	20/	196	0.0	0.0	0.0	236/	20/	196	3
		U G THK	136/	20/	96	0.61	80/	11/	59	0.0	0.0	0.0	80/	11/	59	1
			818/	47/	724	0.38	316/	20/	275	0.0	0.0	0.0	316/	20/	275	6
		SURF	255/	10/	235	0.80	205/	8/	189	0.1	<0.1	0.1	205/	8/	188	
		U G	6031/	104/	5824	0.39	2360/	51/	2258	0.0	1.8	1.8	2358/	51/	2256	
			6287/	95/	6096	0.41	2565/	45/	2474	0.1	1.8	2.0	2563/	45/	2472	
MCGREGOR LAKE																
1	NORTH	SURF	3/	1/	2	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	43/	7/	29	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	7
			46/	7/	32	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	7
2	LONG COULEE	SURF	10/	0/	9	0.01	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
		U G THN	6/	0/	6	0.05	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
			16/	1/	15	0.03	0/	0/	0	0.0	0.4	0.4	0/	0/	0	1
3	SOUTH	U G THN	9/	3/	4	0.02	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	5
			9/	3/	4	0.02	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	5
		SURF	13/	1/	11	0.01	0/	0/	0	<0.1	0.1	0.1	0/	0/	0	
		U G	58/	7/	43	0.01	0/	0/	0	0.0	0.4	0.4	0/	0/	0	
			70/	7/	56	0.01	1/	0/	1	<0.1	0.5	0.5	0/	0/	0	

Plains Region

Avg Dip	Aggregate Avg Thickness	Map Area	Density Used	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	1.5/ 0.09	2.5/ 0.6	1.50/ 0.01	7- 49		15.1			
	1.7/ 0.09	164.8/ 3.6	1.46/ 0.01	13- 253		0.0			
	1.7/ 0.10	49.3/ 4.4	1.47/ 0.01	28- 207		16.3			
	1.7/ 0.07	208.0/ 3.3	1.46/ 0.00	7- 253	SUB B/C	16.3		1990	
	2.4/ 0.09	16.1/ 1.0	1.43/ 0.01	7- 46		18.4			
	1.8/ 0.07	186.6/ 3.9	1.44/ 0.01	17- 189		0.0			
	1.6/ 0.05	30.5/ 2.7	1.45/ 0.01	43- 133		17.9			
	2.0/ 0.06	209.2/ 3.1	1.44/ 0.00	7- 189	SUB B	18.2		1990	
	2.5/ 0.09	9.3/ 1.0	1.47/ 0.00	10- 59		17.6			
	1.9/ 0.08	223.8/ 4.3	1.46/ 0.01	16- 200		0.0			
	2.3/ 0.07	109.1/ 4.0	1.47/ 0.01	48- 213		18.1			
	2.4/ 0.06	285.3/ 4.0	1.46/ 0.01	10- 213	SUB B	17.8		1988	
	4.4/ 0.15	24.7/ 0.9	1.49/ 0.01	7- 60		17.3			
	1.1/ 0.05	112.0/ 4.6	1.46/ 0.01	16- 189		0.0			
	2.9/ 0.12	137.2/ 5.8	1.51/ 0.01	51- 224		17.1			
	4.0/ 0.15	100.6/ 3.6	1.51/ 0.01	61- 174		16.8			
	4.4/ 0.10	234.1/ 3.3	1.50/ 0.00	7- 224	SUB B	17.1		1988	MNE #1739 - NOT PRODUCING
	1.5/ 0.06	139.6/ 4.2	1.46/ 0.02	58- 270		0.0			
	4.5/ 0.15	178.9/ 5.0	1.46/ 0.01	58- 256		17.9			
	3.9/ 0.14	50.5/ 4.3	1.48/ 0.01	61- 259		17.4			
	6.3/ 0.15	193.4/ 3.9	1.47/ 0.01	58- 270	SUB B	17.9		1988	
	1.2/ 0.12	194.5/ 6.2	1.44/ 0.03	168- 330		0.0			
	3.0/ 0.20	79.7/ 4.3	1.48/ 0.01	172- 338		18.0			
	4.1/ 0.27	21.6/ 2.9	1.52/ 0.00	172- 290		16.8			
	2.6/ 0.13	216.5/ 5.6	1.47/ 0.01	168- 338	SUB B	17.8		1988	
	3.3/ 0.08	52.6/ 1.6	1.47/ 0.01	7- 60		17.6			
	3.2/ 0.04	1294.0/ 14.2	1.47/ 0.00	13- 338		17.5			
	3.2/ 0.04	1346.6/ 10.8	1.47/ 0.00	7- 338		17.6			
	0.9/ 0.05	2.9/ 0.8	1.30/ 0.02	10- 10		0.0			
	1.2/ 0.16	25.3/ 2.2	1.40/ 0.02	10- 255		0.0			
	1.2/ 0.15	28.2/ 2.4	1.39/ 0.02	10- 255	SUB A	0.0		1976	
	1.2/ 0.02	5.8/ 0.3	1.38/ 0.02	8- 15		0.0			
	0.8/ 0.04	5.8/ 0.2	1.37/ 0.02	15- 51		0.0			
	1.0/ 0.02	11.7/ 0.3	1.39/ 0.02	8- 51	SUB A	0.0		1978	
	1.2/ 0.34	5.5/ 0.3	1.34/ 0.02	26- 30		0.0			
	1.2/ 0.34	5.5/ 0.3	1.34/ 0.02	26- 30	SUB A	0.0		1976	
	1.1/ 0.02	8.7/ 0.7	1.36/ 0.02	8- 15		0.0			
	1.1/ 0.13	36.7/ 2.4	1.39/ 0.01	10- 255		0.0			
	1.1/ 0.10	45.4/ 2.5	1.38/ 0.01	8- 255		0.0			

TABLE A-3 (Continued)

Coal Field		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
Coal Deposit			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name	megatonnes					megatonnes									
MEDICINE HAT																
1	REDCLIFF	SURF	15/	8/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G THN	46/	4/	38	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	32/	5/	23	0.04	7/	3/	1	0.0	0.9	0.9	7/	3/	0	2
			93/	11/	72	0.01	7/	3/	1	0.0	0.9	0.9	7/	3/	0	2
2	DUNMORE	SURF	25/	10/	4	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THN	151/	10/	132	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	204/	12/	181	0.59	122/	8/	107	0.0	0.0	0.0	122/	8/	107	1
			380/	18/	344	0.31	122/	8/	107	0.0	0.0	0.0	122/	8/	107	3
3	MURRAY LAKE	SURF	16/	5/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
		U G THN	64/	7/	50	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	50/	3/	45	0.39	20/	1/	18	0.0	0.0	0.0	20/	1/	18	1
			130/	9/	111	0.16	20/	1/	18	0.0	0.0	0.0	20/	1/	18	3
4	GRANLEA	SURF	1/	0/	0	0.04	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	10/	1/	8	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			11/	1/	8	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
5	PEIGAN CREEK	SURF	23/	6/	10	0.76	16/	4/	7	0.0	0.0	0.0	16/	4/	7	5
		U G THN	133/	42/	50	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
		U G MED	146/	41/	64	0.68	99/	28/	44	0.0	0.0	0.0	99/	28/	44	3
			302/	68/	165	0.40	114/	24/	66	0.0	0.0	0.0	114/	24/	66	5
		SURF	79/	15/	48	0.15	16/	4/	7	<0.1	<0.1	<0.1	16/	4/	7	
		U G	837/	61/	714	0.27	248/	29/	190	0.0	0.9	0.9	247/	29/	190	
		915/	72/	771	0.28	264/	26/	213	<0.1	0.9	0.9	263/	26/	212		
MORINVILLE																
1	MANOLA	SURF	62/	6/	50	0.49	31/	3/	25	0.0	0.0	0.0	31/	3/	25	3
		U G THN	65/	5/	54	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	17/	1/	15	0.59	10/	1/	9	0.0	0.0	0.0	10/	1/	9	1
			144/	8/	128	0.27	41/	3/	35	0.0	0.0	0.0	41/	3/	35	4
2	PICARDVILLE	SURF	320/	13/	294	0.62	199/	8/	183	0.1	<0.1	0.1	199/	8/	182	3
		U G THN	102/	7/	87	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	158/	9/	139	0.14	23/	2/	19	0.0	0.0	0.0	23/	2/	19	1
			577/	17/	543	0.38	222/	9/	205	0.1	<0.1	0.1	222/	9/	205	3
3	GEORGE LAKE	SURF	94/	14/	65	0.53	54/	10/	35	0.0	0.0	0.0	54/	10/	35	2
		U G THN	195/	23/	149	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	90/	10/	71	0.00	10/	5/	0	0.0	0.0	0.0	10/	5/	0	1
			379/	29/	321	0.13	65/	11/	42	0.0	0.0	0.0	65/	11/	42	2
4	MANAWAN LAKE	SURF	372/	21/	330	0.68	257/	15/	226	1.1	0.1	1.3	255/	15/	225	3
		U G THN	167/	13/	142	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	40/	4/	31	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			579/	25/	529	0.43	257/	15/	226	1.1	0.1	1.3	255/	15/	225	3

Plains Region

Avg Dip	Aggregate Avg Thickness	Map Area	Density Used	Depth Range	Rank	As Mined	Land Catg	Year Calc	Remarks
	BE/ SE	BE/ SE	BE/ SE			H V			
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	3.3/ 1.43	3.4/ 0.9	1.34/ 0.03	6- 48		0.0			
	1.2/ 0.10	27.4/ 0.8	1.40/ 0.02	35- 77		0.0			
	2.4/ 0.33	10.1/ 0.5	1.34/ 0.02	40- 69		18.1			
	1.9/ 0.21	35.5/ 1.1	1.38/ 0.02	6- 77	SUB C	18.1		1976	
	2.7/ 1.06	6.8/ 0.9	1.37/ 0.02	6- 38		0.0			
	1.1/ 0.06	100.9/ 2.5	1.36/ 0.02	16- 198		0.0			
	2.0/ 0.10	72.5/ 1.9	1.41/ 0.02	42- 204		17.1			
	1.9/ 0.07	142.9/ 3.6	1.39/ 0.02	6- 204	SUB C	17.1		1976	
	1.8/ 0.63	6.3/ 0.0	1.36/ 0.02	10- 36		0.0			
	1.3/ 0.15	35.2/ 0.0	1.41/ 0.02	24- 155		0.0			
	1.7/ 0.08	19.7/ 0.0	1.50/ 0.02	45- 137		17.7			
	1.8/ 0.13	51.6/ 0.0	1.44/ 0.02	10- 155	SUB C	17.7		1976	
	0.7/ 0.10	0.5/ 0.0	1.34/ 0.02	6- 7		0.0			
	0.8/ 0.10	9.6/ 0.0	1.34/ 0.02	11- 35		0.0			
	0.8/ 0.10	10.1/ 0.0	1.33/ 0.02	6- 35	SUB B/C	0.0		1976	
	3.5/ 0.71	4.4/ 0.5	1.44/ 0.24	30- 60		16.6			
	1.8/ 0.46	50.4/ 4.3	1.43/ 0.26	35- 125		0.0			
	2.9/ 0.65	34.7/ 2.3	1.44/ 0.23	40- 125		16.9			
	3.3/ 0.60	64.3/ 3.7	1.44/ 0.17	30- 125	SUB C	16.6		1984	
	2.6/ 0.46	21.5/ 1.5	1.38/ 0.07	6- 60		16.6			
	2.1/ 0.12	282.9/ 5.6	1.41/ 0.06	11- 204		17.1			
	2.1/ 0.14	304.4/ 6.7	1.41/ 0.06	6- 204		17.0			
	2.8/ 0.25	15.1/ 0.5	1.47/ 0.02	5- 48		15.6			
	1.1/ 0.09	37.7/ 0.9	1.55/ 0.02	12- 80		0.0			
	2.0/ 0.05	5.4/ 0.3	1.55/ 0.02	38- 71		16.8			
	1.7/ 0.08	55.1/ 1.3	1.52/ 0.02	5- 80	SUB C	16.1		1976	
	3.2/ 0.09	70.1/ 1.5	1.41/ 0.03	1- 55		17.8			
	1.1/ 0.07	66.2/ 1.5	1.42/ 0.04	10- 87		0.0			
	2.5/ 0.05	44.1/ 1.4	1.41/ 0.05	30- 79		17.8			
	3.1/ 0.09	132.2/ 2.9	1.41/ 0.02	1- 87	SUB C	17.8		1981	
	2.6/ 0.35	25.3/ 1.1	1.44/ 0.09	7- 51		17.2			
	1.4/ 0.15	97.3/ 2.7	1.42/ 0.07	15- 149		0.0			
	1.9/ 0.07	33.0/ 1.3	1.47/ 0.14	28- 65		17.9			
	2.1/ 0.15	128.7/ 3.3	1.43/ 0.05	7- 149	SUB C	17.4		1981	
	2.5/ 0.11	106.2/ 2.5	1.43/ 0.03	2- 54		17.0			
	1.2/ 0.07	98.5/ 2.5	1.42/ 0.05	9- 71		0.0			
	1.9/ 0.14	14.2/ 0.8	1.48/ 0.09	25- 55		0.0			
	2.1/ 0.06	194.1/ 4.7	1.43/ 0.03	2- 71	SUB C	17.0		1981	MINE #1582 - PRODUCING

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
MORINVILLE																
5	BON ACCORD	SURF	170/	10/	150	0.71	121/	8/	106	0.0	<0.1	<0.1	121/	8/	106	2
		U G THN	63/	7/	49	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			232/	12/	208	0.51	121/	8/	106	0.0	<0.1	<0.1	121/	8/	106	3
6	CARDIFF	SURF	105/	5/	95	0.46	49/	3/	44	0.7	5.3	6.1	43/	3/	38	2
		U G THN	50/	4/	42	0.02	1/	0/	1	0.0	1.0	1.0	0/	0/	0	1
		U G MED	6/	0/	5	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			161/	7/	148	0.30	50/	3/	45	0.7	6.4	7.1	43/	3/	38	3
7	NAMAQ	SURF	55/	9/	37	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G THN	108/	15/	79	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	16/	4/	8	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			179/	18/	143	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		SURF	1177/	32/	1112	0.60	712/	22/	688	2.0	5.6	7.6	704/	22/	661	
		U G	1074/	35/	1004	0.03	45/	6/	34	0.0	1.0	1.0	44/	6/	33	
			2251/	48/	2155	0.33	757/	23/	712	2.0	6.6	8.6	748/	23/	703	
MUSREAU LAKE																
1	NORTH	SURF	62/	13/	37	0.66	44/	10/	24	0.0	0.0	0.0	44/	10/	24	3
		U G THN	40/	9/	22	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
			102/	16/	71	0.35	44/	10/	24	0.0	0.0	0.0	44/	10/	24	4
2	AMUNDSON	U G THN	48/	4/	41	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	64/	6/	52	0.66	43/	4/	35	0.0	0.0	0.0	43/	4/	35	3
			112/	6/	100	0.35	43/	4/	35	0.0	0.0	0.0	43/	4/	35	4
3	KAKWA TOWER	SURF	126/	9/	108	0.86	109/	8/	93	0.0	0.0	0.0	109/	8/	93	5
		U G THN	198/	10/	178	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	58/	6/	45	0.67	39/	4/	31	0.0	0.0	0.0	39/	4/	31	1
			382/	13/	356	0.37	148/	8/	132	0.0	0.0	0.0	148/	8/	132	7
		SURF	188/	15/	157	0.81	153/	12/	128	0.0	0.0	0.0	153/	12/	128	
		U G	408/	17/	375	0.19	82/	6/	70	0.0	0.0	0.0	82/	6/	70	
			597/	21/	554	0.38	234/	13/	208	0.0	0.0	0.0	234/	13/	208	
ROLLING HILLS																
1	ROLLING HILLS	SURF	0/	0/	0	0.85	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	289/	32/	225	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	146/	7/	133	0.71	99/	3/	94	0.0	0.0	0.0	99/	3/	94	1
			435/	32/	371	0.25	99/	3/	94	<0.1	<0.1	<0.1	99/	3/	94	2
		SURF	0/	0/	0	0.85	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G	435/	32/	370	0.25	99/	3/	94	0.0	0.0	0.0	99/	3/	94	
			435/	32/	371	0.25	99/	3/	94	<0.1	<0.1	<0.1	99/	3/	94	

Plains Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	2.5/ 0.12	45.5/ 1.4	1.49/ 0.02	7- 45		16.7			
	1.2/ 0.12	34.9/ 1.2	1.50/ 0.02	17- 48		0.0			
	1.9/ 0.08	80.4/ 2.3	1.49/ 0.02	7- 48	SUB C	16.7		1976	
	2.5/ 0.10	28.6/ 0.7	1.47/ 0.02	4- 55		16.1			
	1.2/ 0.09	28.0/ 0.7	1.50/ 0.02	11- 102		0.0			
	2.1/ 0.07	1.9/ 0.1	1.52/ 0.02	33- 74		0.0			
	2.1/ 0.07	52.5/ 1.2	1.47/ 0.02	4- 102	SUB C	16.1		1976	MINE #1626 - NOT PRODUCING
	1.4/ 0.22	27.1/ 1.4	1.44/ 0.02	4- 42		0.0			
	1.3/ 0.17	56.5/ 2.2	1.47/ 0.02	9- 58		0.0			
	1.7/ 0.08	5.9/ 1.5	1.55/ 0.02	40- 41		0.0			
	1.5/ 0.13	80.6/ 2.7	1.47/ 0.02	4- 58	SUB C	0.0		1976	
	2.6/ 0.06	317.8/ 3.7	1.44/ 0.02	1- 55		17.1			
	1.7/ 0.05	427.5/ 4.7	1.45/ 0.02	9- 149		17.6			
	2.2/ 0.04	723.6/ 7.6	1.44/ 0.01	1- 149		17.1			
	2.1/ 0.41	18.7/ 1.0	1.55/ 0.02	2- 52		17.3			
	1.8/ 0.39	14.1/ 1.0	1.55/ 0.02	12- 73		0.0			
	2.7/ 0.40	24.8/ 1.1	1.55/ 0.02	2- 73 HVC/SUBA		17.3	3	1976	
	1.6/ 0.09	20.0/ 1.1	1.50/ 0.01	33- 140		0.0			
	2.4/ 0.11	18.1/ 1.5	1.50/ 0.02	41- 139		19.5			
	2.8/ 0.10	26.7/ 1.1	1.50/ 0.01	33- 140 HVC/SUBA		19.5	3	1987	
	2.6/ 0.07	32.1/ 2.1	1.49/ 0.01	6- 60		20.5			
	1.4/ 0.04	96.6/ 4.1	1.49/ 0.02	13- 138		0.0			
	1.8/ 0.10	21.8/ 2.0	1.49/ 0.01	30- 100		21.1			
	2.0/ 0.04	128.4/ 3.5	1.49/ 0.01	6- 138	H-V C	20.8	4&3	1987	CATEGORY 4 - 90%; CATEGORY 3 - 10%
	2.4/ 0.16	50.8/ 2.4	1.51/ 0.01	2- 60		19.6			
	2.0/ 0.06	137.5/ 4.0	1.50/ 0.01	12- 140		20.2			
	2.2/ 0.06	179.9/ 3.7	1.50/ 0.01	2- 140		19.9			
	2.1/ 0.06	0.0/ 0.0	1.40/ 0.04	10- 15		0.0			
	1.7/ 0.18	123.2/ 3.6	1.38/ 0.02	49- 121		0.0			
	1.7/ 0.04	54.7/ 2.0	1.55/ 0.02	37- 79		18.1			
	2.4/ 0.12	126.8/ 6.3	1.44/ 0.02	10- 121	SUB B	18.1		1979	
	2.1/ 0.06	0.0/ 0.0	1.40/ 0.04	10- 15		0.0			
	2.4/ 0.17	126.8/ 2.9	1.44/ 0.01	37- 121		18.1			
	2.4/ 0.12	126.8/ 6.3	1.44/ 0.02	10- 121		18.1			

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes				megatonnes			megatonnes			megatonnes			
ROSEMARY																
1	ROSEMARY	U G THN	114/	13/	89	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
		U G MED	36/	6/	23	0.45	16/	3/	10	0.0	0.0	0.0	16/	3/	10	1
			150/	14/	121	0.08	16/	3/	10	0.0	0.0	0.0	16/	3/	10	2
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	150/	14/	121	0.08	16/	3/	10	0.0	0.0	0.0	16/	3/	10	
			150/	14/	121	0.08	16/	3/	10	0.0	0.0	0.0	16/	3/	10	
SCOLLARD																
1	NEVIS	SURF	18/	3/	12	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	5/	1/	2	0.03	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	1
			23/	4/	16	0.00	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
2	EWING LAKE	SURF	40/	5/	29	0.30	14/	2/	9	<0.1	<0.1	<0.1	14/	2/	9	2
		U G THN	35/	6/	23	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	45/	4/	36	0.54	27/	4/	20	0.0	<0.1	<0.1	27/	4/	20	1
		U G THK	17/	4/	8	0.45	8/	2/	4	0.0	0.0	0.0	8/	2/	4	1
			136/	15/	106	0.36	48/	5/	38	<0.1	<0.1	<0.1	48/	5/	38	3
3	BIG VALLEY	SURF	71/	6/	59	0.11	11/	2/	8	<0.1	0.3	0.4	10/	2/	8	2
		U G THN	39/	6/	28	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	3
		U G MED	58/	4/	50	0.33	20/	2/	17	0.0	0.2	0.2	20/	2/	17	1
			189/	12/	145	0.18	31/	2/	26	<0.1	0.5	0.5	30/	2/	25	4
4	RUMSEY	SURF	20/	3/	15	0.31	8/	1/	5	0.0	<0.1	<0.1	8/	1/	5	2
		U G THN	8/	3/	2	0.01	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			28/	4/	20	0.23	8/	1/	5	0.0	<0.1	<0.1	8/	1/	5	2
		SURF	149/	9/	131	0.19	32/	4/	25	<0.1	0.4	0.4	32/	4/	24	
		U G	207/	12/	184	0.25	54/	4/	45	0.0	0.3	0.3	54/	4/	45	
			356/	20/	316	0.24	86/	6/	75	<0.1	0.6	0.7	85/	6/	74	
SHEERNESS																
1	SHEERNESS	SURF	224/	4/	215	0.75	167/	3/	162	43.8	0.2	44.0	123/	3/	118	2
		U G THN	20/	1/	18	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			244/	5/	235	0.69	167/	3/	162	43.8	0.2	44.0	123/	3/	118	2
		SURF	224/	4/	215	0.75	167/	3/	162	43.8	0.2	44.0	123/	3/	118	
		U G	20/	1/	18	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			244/	5/	235	0.69	167/	3/	162	43.8	0.2	44.0	123/	3/	118	
SIMONETTE																
1	SIMONETTE	SURF	158/	25/	109	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G THN	111/	28/	55	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4
			269/	37/	194	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6
		SURF	158/	25/	109	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	111/	28/	55	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
			269/	37/	194	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
SOUTH SWAN HILLS																
1	RAINBOW CREEK	SURF	11/	3/	6	0.82	9/	2/	5	0.0	0.0	0.0	9/	2/	5	4
		U G THN	102/	10/	82	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	8
			113/	10/	93	0.05	9/	2/	5	0.0	0.0	0.0	9/	2/	5	6

Plains Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	1.1/ 0.09	72.7/ 5.0	1.39/ 0.02	47- 84		0.0			
	1.6/ 0.19	15.2/ 2.0	1.43/ 0.03	54- 71		18.2			
	1.3/ 0.10	80.8/ 4.8	1.40/ 0.01	47- 84	SUB B	18.2		1988	
	0.0/ 0.00	0.0/ 0.0	0.00/ 0.00			0.0			
	1.3/ 0.10	80.8/ 4.8	1.40/ 0.01	47- 84		18.2			
	1.3/ 0.10	80.8/ 4.8	1.40/ 0.01	47- 84		18.2			
	1.7/ 0.21	7.7/ 0.3	1.37/ 0.12	2- 14		0.0			
	0.8/ 0.10	4.2/ 0.4	1.43/ 0.33	11- 37		0.0			
	1.4/ 0.17	11.9/ 0.4	1.38/ 0.13	2- 37	SUB B	0.0		1982	
	3.4/ 0.42	7.7/ 0.3	1.52/ 0.06	9- 54		16.9			
	1.3/ 0.23	17.6/ 0.6	1.50/ 0.08	18- 151		0.0			
	2.0/ 0.13	14.7/ 0.6	1.53/ 0.09	30- 72		16.7			
	3.9/ 0.12	2.7/ 0.7	1.59/ 0.07	65- 66		15.2			
	2.8/ 0.20	31.9/ 2.5	1.53/ 0.04	9- 151	SUB B	16.7		1982	
	2.4/ 0.13	19.3/ 0.5	1.51/ 0.09	1- 57		16.2			
	1.5/ 0.19	17.2/ 0.6	1.48/ 0.10	18- 145		0.0			
	2.2/ 0.12	17.0/ 0.5	1.54/ 0.05	37- 152		16.2			
	2.5/ 0.13	44.0/ 1.5	1.51/ 0.05	1- 152	SUB B	16.2		1982	
	2.1/ 0.20	6.9/ 0.4	1.39/ 0.13	4- 46		19.0			
	1.4/ 0.24	3.9/ 0.4	1.42/ 0.40	19- 59		0.0			
	1.9/ 0.16	10.8/ 0.8	1.40/ 0.13	4- 59	SUB B	19.0		1982	
	2.4/ 0.11	41.6/ 0.8	1.48/ 0.05	1- 57		17.2			
	2.4/ 0.10	56.9/ 1.4	1.52/ 0.04	11- 152		16.3			
	2.4/ 0.09	98.5/ 3.4	1.50/ 0.03	1- 152		16.7			
	2.2/ 0.04	73.8/ 0.7	1.37/ 0.00	1- 34		16.8			
	0.9/ 0.03	16.2/ 0.9	1.37/ 0.01	10- 46		0.0			
	2.0/ 0.03	89.8/ 0.7	1.37/ 0.00	1- 46	SUB C	16.8	4	1999	MINE #1809 - PRODUCING
	2.2/ 0.04	73.8/ 0.7	1.37/ 0.00	1- 34		16.8			
	0.9/ 0.03	16.2/ 0.9	1.37/ 0.01	10- 46		0.0			
	2.0/ 0.03	89.8/ 0.7	1.37/ 0.00	1- 46		16.8			
	4.3/ 0.49	23.9/ 2.5	1.55/ 0.02	13- 54		0.0			
	2.4/ 0.56	29.6/ 2.8	1.55/ 0.02	49- 89		0.0			
	4.8/ 0.36	36.4/ 4.2	1.55/ 0.02	13- 89	SUB A	0.0	3	1979	
	4.3/ 0.49	23.9/ 2.5	1.55/ 0.02	13- 54		0.0			
	2.4/ 0.56	29.6/ 2.8	1.55/ 0.02	49- 89		0.0			
	4.8/ 0.36	36.4/ 4.2	1.55/ 0.02	13- 89		0.0			
	1.3/ 0.12	6.1/ 1.4	1.41/ 0.02	14- 35		16.0			
	1.1/ 0.09	65.1/ 3.1	1.42/ 0.06	14- 120		0.0			
	1.2/ 0.09	65.9/ 2.9	1.42/ 0.05	14- 120	SUB C	16.0	3	1993	

TABLE A-3 (Continued)

Coal Field		Seam Class	Initial In-Place Resources		Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
Coal Deposit			BE/	SE/ Estb		BE/	SE/ Estb	Surf	U G	Tot	BE/	SE/ Estb			
No.	Name	megatonnes				megatonnes									
SOUTH SWAN HILLS															
2	FREEMAN CREEK	SURF	180/	8/ 164	0.78	140/	6/ 129	0.0	0.0	0.0	140/	6/ 129	5		
		U G THN	151/	8/ 135	0.00	0/ 0/ 0	0.0	0.0	0.0	0/ 0/ 0	7				
		U G MED	93/	6/ 81	0.66	62/	4/ 54	0.0	0.0	0.0	62/	4/ 54	2		
			423/	11/ 401	0.47	202/	6/ 189	0.0	0.0	0.0	202/	6/ 189	8		
3	LOUISE CREEK	SURF	211/	6/ 199	0.75	158/	4/ 149	0.0	0.0	0.0	158/	4/ 149	6		
		U G THN	815/	37/ 740	0.00	0/ 0/ 0	0.0	0.0	0.0	0/ 0/ 0	7				
		U G MED	79/	15/ 49	0.67	54/	10/ 33	0.0	0.0	0.0	54/	10/ 33	2		
			1105/	25/ 1054	0.19	211/	6/ 200	0.0	0.0	0.0	211/	6/ 200	7		
4	JUDY CREEK	SURF	230/	7/ 217	0.75	172/	5/ 162	<0.1	0.0	<0.1	172/	5/ 162	6		
		U G THN	145/	7/ 132	0.00	0/ 0/ 0	0.0	0.0	0.0	0/ 0/ 0	8				
		U G MED	248/	11/ 225	0.66	164/	8/ 149	0.0	0.0	0.0	164/	8/ 149	3		
			623/	11/ 601	0.53	335/	7/ 322	<0.1	0.0	<0.1	335/	7/ 322	8		
5	WEASONE CREEK	SURF	118/	3/ 111	0.84	99/	3/ 93	0.0	0.0	0.0	99/	3/ 93	4		
		U G THN	471/	12/ 448	0.00	0/ 0/ 0	0.0	0.0	0.0	0/ 0/ 0	5				
		U G MED	414/	16/ 383	0.67	279/	11/ 258	0.0	0.0	0.0	279/	11/ 258	1		
			1003/	17/ 968	0.37	378/	10/ 358	0.0	0.0	0.0	378/	10/ 358	5		
6	CARSON LAKE	U G THN	406/	11/ 385	0.00	0/ 0/ 0	0.0	0.0	0.0	0/ 0/ 0	4				
		U G MED	26/	4/ 18	0.67	18/	3/ 12	0.0	0.0	0.0	18/	3/ 12	1		
			432/	10/ 411	0.03	18/	3/ 12	0.0	0.0	0.0	18/	3/ 12	4		
7	BASELINE LAKE	SURF	80/	11/ 58	0.58	44/	5/ 34	0.0	0.0	0.0	44/	5/ 34	4		
		U G THN	910/	35/ 839	0.00	0/ 0/ 0	0.0	0.0	0.0	0/ 0/ 0	6				
			990/	36/ 919	0.04	44/	5/ 34	0.0	0.0	0.0	44/	5/ 34	6		
		SURF	830/	17/ 796	0.75	622/	11/ 600	<0.1	0.0	<0.1	622/	11/ 600			
		U G	3859/	62/ 3736	0.14	576/	17/ 541	0.0	0.0	0.0	576/	17/ 541			
			4689/	52/ 4586	0.25	1198/	16/ 1165	<0.1	0.0	<0.1	1198/	16/ 1165			
STRATHMORE															
1	ROCKYFORD	U G THN	352/	19/ 314	0.00	0/ 0/ 0	0.0	0.2	0.2	0/ 0/ 0	4				
		U G MED	1033/	31/ 971	0.68	694/	17/ 659	0.0	0.0	0.0	694/	17/ 659	3		
			1385/	37/ 1309	0.50	694/	17/ 659	0.0	0.2	0.2	694/	17/ 659	4		
2	STANDARD	SURF	22/	2/ 18	0.40	10/	1/ 7	0.0	0.1	0.1	10/	1/ 7	1		
		U G THN	237/	14/ 209	0.00	0/ 0/ 0	0.0	<0.1	<0.1	0/ 0/ 0	3				
		U G MED	122/	19/ 84	0.68	82/	12/ 58	0.0	0.0	0.0	82/	12/ 58	1		
			381/	24/ 335	0.20	91/	12/ 67	0.0	0.1	0.1	91/	12/ 67	3		
		SURF	22/	2/ 18	0.40	10/	1/ 7	0.0	0.1	0.1	10/	1/ 7			
	U G	1744/	43/ 1657	0.44	776/	21/ 734	0.0	0.2	0.2	776/	21/ 734				
			1766/	44/ 1678	0.44	786/	21/ 744	0.0	0.3	0.3	786/	21/ 743			

Plains Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	3.6/ 0.10	35.7/ 1.1	1.41/ 0.01	1- 60		16.3			
	1.9/ 0.06	53.9/ 2.3	1.44/ 0.01	15- 110		0.0			
	2.2/ 0.04	30.1/ 1.9	1.39/ 0.00	60- 105		17.2			
	3.5/ 0.06	84.5/ 1.6	1.42/ 0.00	1- 110	SUB C	16.6	3	1993	
	4.5/ 0.09	33.8/ 0.7	1.40/ 0.00	10- 60		16.3			
	3.1/ 0.06	186.9/ 7.7	1.42/ 0.00	20- 180		0.0			
	2.1/ 0.07	26.6/ 5.0	1.45/ 0.00	55- 170		15.6			
	3.5/ 0.05	220.8/ 3.8	1.42/ 0.00	10- 180	SUB C	16.1	3	1993	
	3.8/ 0.08	42.7/ 0.9	1.40/ 0.01	1- 60		16.5			
	1.3/ 0.02	82.9/ 3.2	1.39/ 0.02	15- 170		0.0			
	3.1/ 0.07	56.5/ 2.3	1.42/ 0.00	35- 120		16.3			
	3.2/ 0.04	137.1/ 1.8	1.41/ 0.01	1- 170	SUB C	16.3	3	1993	
	3.1/ 0.07	26.7/ 0.6	1.40/ 0.00	13- 60		16.6			
	1.8/ 0.03	190.0/ 3.0	1.38/ 0.01	13- 230		0.0			
	2.0/ 0.06	142.4/ 3.4	1.47/ 0.00	40- 220		15.2			
	3.3/ 0.05	216.6/ 1.7	1.42/ 0.00	13- 230	SUB C	15.4	3	1993	
	1.6/ 0.03	181.3/ 2.9	1.40/ 0.01	15- 220		0.0			
	1.6/ 0.06	11.2/ 1.8	1.43/ 0.05	35- 90		16.5			
	1.6/ 0.03	192.5/ 2.9	1.40/ 0.01	15- 220	SUB B/C	16.5	3	1993	
	2.7/ 0.12	21.0/ 2.7	1.40/ 0.02	1- 55		17.3			
	2.8/ 0.09	233.4/ 5.1	1.41/ 0.01	14- 320		0.0			
	2.8/ 0.08	254.4/ 5.1	1.41/ 0.01	1- 320	SUB B/C	17.3	3	1993	
	3.6/ 0.04	165.9/ 2.8	1.40/ 0.00	1- 60		16.5			
	2.7/ 0.03	1016.4/ 12.3	1.42/ 0.00	13- 320		15.8			
	2.8/ 0.02	1171.8/ 7.9	1.41/ 0.00	1- 320		16.1			
	1.4/ 0.06	171.5/ 5.5	1.43/ 0.01	13- 335		0.0			
	3.5/ 0.08	208.4/ 3.3	1.41/ 0.01	142- 327		20.6			
	4.1/ 0.10	239.5/ 4.3	1.41/ 0.00	13- 335	SUB A	20.6		1986	
	1.5/ 0.08	10.4/ 0.8	1.43/ 0.01	4- 26		20.2			
	2.6/ 0.13	64.2/ 2.0	1.42/ 0.01	16- 333		0.0			
	2.0/ 0.28	44.3/ 2.8	1.38/ 0.01	250- 365		21.8			
	4.1/ 0.23	66.9/ 1.9	1.41/ 0.01	4- 365	SUB A	21.5		1987	
	1.5/ 0.08	10.4/ 0.8	1.43/ 0.01	4- 26		20.2			
	4.0/ 0.08	303.6/ 3.9	1.41/ 0.01	13- 365		20.7			
	4.1/ 0.09	306.3/ 4.7	1.41/ 0.00	4- 365		20.7			

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used	
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb		
No.	Name	megatonnes					megatonnes										
TABER																	
1	TABER	SURF	28/	2/	24	0.37	10/	1/	9	1.5	0.1	1.6	9/	1/	7	1	
		U G THN	132/	4/	124	0.02	2/	0/	2	0.0	2.3	2.3	0/	0/	0	1	
			160/	5/	151	0.07	13/	1/	11	1.5	2.4	3.9	9/	1/	7	1	
		SURF	28/	2/	24	0.37	10/	1/	9	1.5	0.1	1.6	9/	1/	7		
		U G	132/	4/	124	0.02	2/	0/	2	0.0	2.3	2.3	0/	0/	0		
			160/	5/	151	0.08	13/	1/	11	1.5	2.4	3.9	9/	1/	7		
TOFIELD-DODDS																	
1	MIQUELON LAKES	U G THN	3227/	129/	2908	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5	
		U G MED	233/	21/	190	0.48	115/	11/	92	0.0	0.0	0.0	115/	11/	92	1	
			3480/	131/	3199	0.03	115/	11/	92	0.0	0.0	0.0	115/	11/	92	6	
2	TOFIELD	SURF	96/	4/	89	0.87	65/	3/	60	2.7	<0.1	2.7	62/	3/	57	2	
		U G THN	438/	18/	403	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2	
		U G MED	57/	6/	45	0.88	38/	4/	31	0.0	0.0	0.0	38/	4/	31	1	
			591/	16/	559	0.17	103/	3/	98	2.7	<0.1	2.7	101/	3/	95	2	
3	DUSTY LAKE	SURF	593/	19/	555	0.72	425/	14/	397	2.3	0.6	2.9	422/	14/	395	5	
		U G THN	76/	4/	88	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2	
		U G MED	25/	1/	23	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1	
			693/	21/	654	0.61	425/	14/	397	2.3	0.6	2.9	422/	14/	395	5	
4	DINANT	SURF	168/	13/	141	0.02	14/	6/	2	0.8	0.8	1.6	12/	6/	1	3	
		U G THN	1160/	65/	1030	0.00	0/	0/	0	0.0	0.3	0.3	0/	0/	0	4	
		U G MED	1040/	51/	938	0.56	588/	31/	527	0.0	<0.1	<0.1	588/	31/	527	2	
			2368/	83/	2200	0.25	602/	31/	540	0.8	1.1	1.9	600/	31/	538	4	
5	OHATON	SURF	243/	12/	220	0.84	158/	9/	141	0.0	0.0	0.0	158/	9/	141	3	
		U G THN	150/	10/	131	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2	
		U G MED	68/	8/	50	0.22	12/	1/	11	0.0	0.0	0.0	12/	1/	11	1	
			459/	27/	405	0.38	170/	9/	153	0.0	<0.1	<0.1	170/	9/	153	3	
		SURF	1100/	26/	1047	0.60	662/	17/	627	5.7	1.4	7.1	655/	17/	620		
		U G	6471/	156/	6158	0.11	754/	33/	688	0.0	0.3	0.3	753/	33/	688		
			7571/	160/	7251	0.18	1416/	37/	1341	5.7	1.8	7.5	1408/	37/	1334		
WABAMUN																	
1	STANGER	SURF	87/	7/	73	0.81	71/	6/	59	0.0	0.0	0.0	71/	6/	59	2	
		U G THN	2/	0/	1	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1	
			88/	7/	74	0.80	71/	6/	59	0.0	0.0	0.0	71/	6/	59	3	
2	MAGNOLIA	SURF	363/	15/	333	0.88	248/	10/	228	<0.1	<0.1	<0.1	248/	10/	228	3	
		U G THN	38/	5/	29	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3	
		U G MED	303/	21/	261	0.46	140/	10/	120	0.0	0.0	0.0	140/	10/	120	2	
		U G THK	22/	5/	13	0.86	15/	3/	9	0.0	0.0	0.0	15/	3/	9	1	
			726/	20/	686	0.55	402/	12/	379	<0.1	<0.1	<0.1	402/	12/	379	4	

Plains Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	1.0/ 0.02	19.7/ 1.2	1.40/ 0.01	4- 18		22.2			
	0.9/ 0.02	106.8/ 2.0	1.39/ 0.01	11- 78		0.0			
	0.9/ 0.02	126.4/ 2.0	1.39/ 0.01	4- 78	SUB A	22.2		1986	
	1.0/ 0.02	19.7/ 1.2	1.40/ 0.01	4- 18		22.2			
	0.9/ 0.02	106.8/ 2.0	1.39/ 0.01	11- 78		0.0			
	0.9/ 0.02	126.4/ 2.0	1.39/ 0.01	4- 78		22.2			
	5.1/ 0.19	464.3/ 5.6	1.38/ 0.01	13- 216		0.0			
	1.7/ 0.09	96.0/ 7.1	1.40/ 0.01	63- 166		17.4			
	5.4/ 0.19	464.3/ 5.1	1.38/ 0.01	13- 216	SUB C	17.4		1999	DEPOSIT RENUMBERED
	1.8/ 0.03	39.0/ 1.4	1.34/ 0.01	1- 58		17.4			
	2.3/ 0.06	135.5/ 3.5	1.38/ 0.02	11- 139		0.0			
	1.7/ 0.03	24.5/ 2.5	1.34/ 0.00	24- 115		17.9			
	2.3/ 0.04	185.8/ 3.2	1.37/ 0.02	1- 139	SUB C	17.6	4	1999	MINE #1803 - UNDEVELOPED; DEPOSIT RENUMBERED
	2.5/ 0.04	172.9/ 3.8	1.37/ 0.02	1- 55		17.7			
	1.2/ 0.05	43.9/ 0.9	1.43/ 0.02	8- 70		0.0			
	1.8/ 0.04	8.7/ 0.2	1.55/ 0.02	14- 46		0.0			
	2.3/ 0.05	216.4/ 4.3	1.39/ 0.02	1- 70	SUB C	17.7		1976	MINE #215 - PRODUCING
	2.4/ 0.13	47.9/ 2.8	1.45/ 0.02	3- 55		17.8			
	2.7/ 0.14	298.8/ 6.0	1.45/ 0.02	10- 185		0.0			
	2.9/ 0.12	246.0/ 4.9	1.45/ 0.02	38- 137		17.8			
	4.8/ 0.09	341.7/ 6.8	1.45/ 0.02	3- 185	SUB C	17.8		1976	
	3.8/ 0.15	46.7/ 1.0	1.37/ 0.02	9- 54		17.7			
	1.3/ 0.08	83.5/ 1.8	1.38/ 0.02	14- 57		0.0			
	2.0/ 0.24	23.3/ 0.7	1.42/ 0.02	24- 61		16.3			
	2.5/ 0.13	133.9/ 2.7	1.38/ 0.02	9- 61	SUB C	17.7		1976	
	2.6/ 0.04	306.5/ 4.9	1.38/ 0.01	1- 58		17.7			
	4.4/ 0.10	1041.0/ 8.8	1.41/ 0.01	8- 216		17.8			
	4.0/ 0.07	1342.1/ 11.3	1.40/ 0.01	1- 216		17.7			
	3.4/ 0.21	16.7/ 0.9	1.53/ 0.02	4- 58		16.8			
	0.6/ 0.04	1.7/ 0.4	1.44/ 0.01	10- 22		0.0			
	3.2/ 0.19	18.4/ 0.9	1.53/ 0.02	4- 58	SUB B	16.8		1987	
	4.4/ 0.14	55.4/ 1.4	1.48/ 0.01	2- 60		18.4			
	1.0/ 0.04	27.1/ 3.1	1.45/ 0.01	18- 117		0.0			
	3.7/ 0.13	55.4/ 3.3	1.48/ 0.01	27- 136		18.7			
	3.8/ 0.15	4.0/ 0.8	1.51/ 0.01	60- 94		17.9			
	4.2/ 0.09	117.0/ 2.0	1.48/ 0.01	2- 136	SUB B	18.4		1987	

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used	
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb		
No.	Name	megatonnes					megatonnes										
WABAMUN																	
3	GAINFORD	SURF	208/	7/	194	0.63	131/	4/	122	<0.1	<0.1	<0.1	131/	4/	122	4	
		U G THN	215/	9/	195	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2	
		U G MED	1391/	49/	1293	0.65	900/	31/	839	0.0	0.0	0.0	900/	31/	839	2	
			1813/	51/	1713	0.57	1030/	31/	969	<0.1	<0.1	<0.1	1030/	31/	969	5	
4	WHITEWOOD	SURF	455/	6/	443	0.56	256/	3/	250	77.4	1.2	78.6	177/	3/	171	3	
		U G THN	61/	3/	56	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2	
		U G MED	68/	4/	58	0.64	42/	3/	37	0.0	0.0	0.0	42/	3/	37	1	
			582/	6/	570	0.51	297/	4/	292	77.4	1.2	78.6	219/	4/	213	3	
5	SUNDANCE	SURF	516/	4/	508	0.82	422/	2/	417	251.2	<0.1	251.2	171/	2/	166	3	
		U G THN	153/	3/	147	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2	
		U G MED	456/	10/	436	0.68	308/	7/	295	0.0	0.0	0.0	308/	7/	295	2	
		U G THK	37/	3/	30	0.64	24/	2/	20	0.0	0.0	0.0	24/	2/	20	1	
		1163/	7/	1150	0.65	753/	6/	745	251.2	<0.1	251.2	502/	6/	494	4		
6	KEEPHILLS	SURF	394/	6/	381	0.88	346/	6/	335	0.0	0.0	0.0	346/	6/	335	3	
		U G THN	122/	4/	114	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1	
		U G MED	402/	9/	383	0.68	271/	6/	259	0.0	0.0	0.0	271/	6/	259	2	
		U G THK	59/	9/	40	0.67	39/	6/	27	0.0	0.0	0.0	39/	6/	27	1	
		976/	9/	959	0.67	657/	7/	644	0.0	0.0	0.0	657/	7/	644	3		
7	LOW WATER LAKE	SURF	71/	4/	62	0.69	49/	3/	43	0.0	0.0	0.0	49/	3/	43	4	
		U G THN	263/	9/	246	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	4	
		U G MED	389/	20/	349	0.66	257/	13/	231	0.0	0.0	0.0	257/	13/	231	2	
		U G THK	585/	19/	546	0.63	366/	11/	344	0.0	0.0	0.0	366/	11/	344	1	
		1307/	22/	1262	0.51	672/	13/	646	0.0	0.0	0.0	672/	13/	646	5		
8	TOMAHAWK	U G THN	776/	29/	719	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5	
		U G MED	1544/	43/	1459	0.62	967/	28/	911	0.0	0.0	0.0	967/	28/	911	2	
		U G THK	714/	26/	662	0.63	449/	15/	419	0.0	0.0	0.0	449/	15/	419	1	
			3035/	46/	2942	0.46	1416/	24/	1367	0.0	0.0	0.0	1416/	24/	1367	6	
		SURF	2093/	21/	2052	0.73	1522/	15/	1493	328.7	1.3	329.9	1192/	15/	1163		
		U G	7598/	67/	7425	0.50	3776/	50/	3676	0.0	0.0	0.0	3776/	50/	3676		
			9691/	76/	9539	0.55	5298/	44/	5209	328.7	1.3	329.9	4968/	44/	4880		
WETASKIWIN																	
1	BERRYMOOR	U G THN	380/	9/	361	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	6	
		U G THK	729/	26/	679	0.45	318/	6/	306	0.0	0.0	0.0	318/	6/	306	1	
			1108/	27/	1055	0.29	318/	6/	306	0.0	0.0	0.0	318/	6/	306	7	
2	LINDALE	SURF	26/	5/	19	0.79	21/	3/	15	0.0	0.0	0.0	21/	3/	15	2	
		U G THN	48/	5/	37	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2	
		U G MED	635/	38/	559	0.66	419/	25/	369	0.0	0.0	0.0	419/	25/	369	2	
			710/	38/	635	0.62	440/	25/	391	0.0	0.0	0.0	440/	25/	391	3	

Plains Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
	BE/	SE	BE/	SE	BE/	SE						
deg	metres		sq km		Vcubic m		metres	ASTM	MJ/kg			
	5.5/	0.13	26.6/	0.6	1.43/	0.01	16- 60		19.4			
	1.6/	0.05	91.6/	2.3	1.43/	0.03	50- 149		0.0			
	5.4/	0.14	180.5/	4.2	1.43/	0.01	31- 201		19.4			
	6.1/	0.04	208.3/	5.6	1.43/	0.00	16- 201	SUB B	19.4		1987	
	4.9/	0.05	66.2/	0.5	1.40/	0.00	2- 60		19.1			
	1.7/	0.02	25.4/	1.0	1.43/	0.01	11- 92		0.0			
	2.7/	0.04	17.4/	1.1	1.39/	0.01	45- 82		20.1			
	4.8/	0.04	86.7/	0.5	1.40/	0.00	2- 92	SUB B	19.4		1999	MINE #1757 - PRODUCING
	7.1/	0.04	51.7/	0.3	1.40/	0.00	1- 60		19.9			
	1.8/	0.02	61.6/	1.0	1.41/	0.01	22- 176		0.0			
	5.2/	0.03	62.4/	1.3	1.40/	0.00	55- 174		20.1			
	3.8/	0.03	6.9/	0.6	1.41/	0.00	61- 113		19.9			
	7.3/	0.03	113.3/	0.5	1.40/	0.00	1- 176	SUB B	20.1		1999	MINE #1765 - PRODUCING
	5.6/	0.07	49.8/	0.5	1.42/	0.01	12- 60		19.1			
	1.3/	0.02	61.4/	1.5	1.49/	0.01	22- 141		0.0			
	4.4/	0.05	63.7/	1.3	1.43/	0.01	57- 134		19.4			
	3.6/	0.05	11.4/	1.8	1.42/	0.01	60- 108		19.6			
	5.9/	0.04	116.3/	0.6	1.43/	0.00	12- 141	SUB B	19.4		1999	
	5.2/	0.08	9.6/	0.6	1.41/	0.00	34- 60		18.8			
	1.6/	0.04	116.7/	2.3	1.43/	0.01	60- 141		0.0			
	2.6/	0.07	105.7/	4.5	1.42/	0.00	43- 128		18.8			
	3.8/	0.05	108.6/	3.4	1.41/	0.00	60- 131		19.0			
	7.5/	0.08	122.6/	1.6	1.42/	0.00	34- 141	SUB B	19.0		1987	
	2.2/	0.07	244.5/	4.6	1.45/	0.01	95- 302		0.0			
	3.8/	0.09	283.8/	4.5	1.43/	0.00	86- 287		19.3			
	3.8/	0.05	134.4/	4.4	1.41/	0.00	89- 204		19.8			
	7.2/	0.08	293.0/	3.2	1.43/	0.00	86- 302	SUB B	19.5		1987	
	5.3/	0.04	276.0/	1.8	1.43/	0.00	1- 60		19.0			
	6.6/	0.05	808.9/	6.5	1.43/	0.00	10- 302		19.4			
	6.3/	0.03	1075.5/	7.0	1.43/	0.00	1- 302		19.3			
	2.1/	0.04	124.0/	2.1	1.47/	0.00	127- 270		0.0			
	3.9/	0.11	132.6/	2.7	1.42/	0.01	114- 262		18.5			
	5.8/	0.11	132.6/	1.9	1.44/	0.01	114- 270	SUB B	18.5	4	1999	
	5.9/	0.23	3.4/	0.5	1.41/	0.02	39- 59		19.0			
	1.0/	0.06	31.8/	2.8	1.43/	0.02	73- 166		0.0			
	3.9/	0.18	116.2/	3.8	1.41/	0.03	42- 183		19.0			
	4.2/	0.18	120.3/	3.4	1.41/	0.02	39- 183	SUB B	19.0		1987	

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes							megatonnes						
WETASKIWIN																
3	GENESEE	SURF	565/	9/	547	0.74	419/	6/	406	29.7	<0.1	29.7	389/	6/	376	3
		U G THN	117/	6/	106	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	334/	13/	309	0.61	208/	10/	188	0.0	0.0	0.0	208/	10/	188	2
			1016/	10/	996	0.62	627/	7/	613	29.7	<0.1	29.7	597/	7/	584	3
4	THORSBY	SURF	183/	9/	165	0.81	148/	7/	134	<0.1	0.0	<0.1	148/	7/	134	4
		U G THN	347/	14/	318	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	365/	16/	334	0.67	243/	10/	222	0.0	0.0	0.0	243/	10/	222	2
			894/	21/	851	0.43	391/	11/	369	<0.1	0.0	<0.1	391/	11/	369	5
5	WIZARD LAKE	SURF	561/	16/	528	0.76	427/	12/	402	<0.1	<0.1	<0.1	427/	12/	402	6
		U G THN	573/	20/	533	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	10
		U G MED	641/	26/	589	0.65	413/	17/	380	0.0	0.0	0.0	413/	17/	380	3
			1775/	41/	1692	0.47	840/	24/	793	<0.1	<0.1	<0.1	840/	24/	793	10
6	FALUN	SURF	361/	6/	349	0.77	278/	5/	269	0.0	<0.1	<0.1	278/	5/	269	5
		U G THN	595/	20/	555	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		U G MED	748/	19/	710	0.66	489/	12/	465	0.0	0.0	0.0	489/	12/	465	3
			1704/	34/	1637	0.45	767/	16/	736	0.0	<0.1	<0.1	767/	16/	736	8
7	BEAR HILLS	U G THN	70/	7/	57	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	42/	6/	29	0.54	24/	4/	16	0.0	0.0	0.0	24/	4/	16	1
			112/	8/	95	0.17	24/	4/	16	0.0	0.0	0.0	24/	4/	16	3
		SURF	1697/	22/	1653	0.76	1294/	17/	1260	29.7	<0.1	29.7	1264/	17/	1231	
		U G	5622/	69/	5484	0.37	2114/	36/	2042	0.0	0.0	0.0	2114/	36/	2042	
		7319/	75/	7169	0.46	3408/	41/	3326	29.7	<0.1	29.7	3378/	41/	3296		
WINDFALL																
1	HURDY	U G THN	288/	28/	231	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G MED	623/	70/	483	0.65	404/	46/	313	0.0	0.0	0.0	404/	46/	313	2
			911/	76/	760	0.41	404/	46/	313	0.0	0.0	0.0	404/	46/	313	4
2	GROAT CREEK	U G THN	143/	9/	125	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
			143/	9/	125	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	5
		SURF	0/	0/	0	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	
		U G	1054/	76/	901	0.35	404/	46/	313	0.0	0.0	0.0	404/	46/	313	
		1054/	76/	901	0.35	404/	46/	313	0.0	0.0	0.0	404/	46/	313		
ISOLATED DEPOSITS																
1	COMREY	SURF	15/	3/	9	0.42	6/	1/	4	<0.1	<0.1	<0.1	6/	1/	4	2
		U G THN	35/	5/	26	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			50/	6/	38	0.10	6/	1/	4	<0.1	<0.1	<0.1	6/	1/	4	2
2	CYPRESS HILLS	SURF	43/	5/	33	0.75	36/	6/	25	<0.1	<0.1	<0.1	36/	6/	25	2
		U G THN	13/	2/	9	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			55/	5/	45	0.55	36/	6/	25	<0.1	<0.1	<0.1	36/	6/	25	2

Plains Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined HV	Land Catg	Year Calc	Remarks
deg	BE/	SE	BE/	SE	BE/	SE	metres	ASTM	MJ/kg			
	3.9/	0.05	103.4/	0.7	1.41/	0.00	3- 60		19.2			
	1.1/	0.02	75.8/	3.3	1.44/	0.00	11- 142		0.0			
	3.8/	0.05	62.7/	2.3	1.40/	0.00	34- 128		19.7			
	4.0/	0.04	182.9/	0.9	1.41/	0.00	3- 142	SUB B	19.5	4	1999	MINE #1786 - PRODUCING
	3.0/	0.05	43.4/	2.0	1.40/	0.00	7- 60		19.3			
	1.2/	0.04	201.8/	5.4	1.40/	0.01	14- 145		0.0			
	2.0/	0.06	134.0/	4.3	1.39/	0.00	30- 156		20.0			
	2.5/	0.05	257.9/	3.9	1.40/	0.00	7- 156	SUB B	19.8		1986	
	2.6/	0.06	146.1/	2.9	1.45/	0.00	3- 60		17.8			
	1.5/	0.03	267.3/	7.2	1.46/	0.02	10- 139		0.0			
	2.8/	0.08	155.0/	4.6	1.48/	0.01	27- 155		17.3			
	3.1/	0.06	395.7/	4.4	1.46/	0.01	3- 155	SUB B	17.5		1986	
	4.3/	0.04	57.9/	0.8	1.46/	0.00	7- 60		17.5			
	1.8/	0.05	223.7/	3.4	1.46/	0.00	22- 158		0.0			
	3.0/	0.05	170.5/	3.1	1.46/	0.00	26- 155		18.0			
	4.3/	0.08	274.3/	1.6	1.46/	0.00	7- 158	SUB B	17.7		1986	
	1.2/	0.09	40.7/	2.2	1.48/	0.04	30- 96		0.0			
	1.8/	0.16	15.9/	1.9	1.47/	0.01	31- 85		16.9			
	1.6/	0.09	48.0/	2.3	1.48/	0.02	30- 96	SUB B	16.9		1987	
	3.4/	0.03	354.1/	3.3	1.43/	0.00	3- 60		18.3			
	3.6/	0.03	1082.6/	8.6	1.44/	0.00	10- 270		18.5			
	3.6/	0.03	1411.7/	7.1	1.44/	0.00	3- 270		18.5			
	1.3/	0.12	150.6/	5.7	1.47/	0.02	100- 300		0.0			
	2.0/	0.22	204.8/	5.7	1.49/	0.01	85- 370		16.3			
	2.9/	0.23	214.4/	4.5	1.48/	0.01	85- 370	SUB B	16.3		1993	
	1.5/	0.08	65.4/	2.1	1.44/	0.03	20- 170		0.0			
	1.5/	0.08	65.4/	2.1	1.44/	0.03	20- 170	SUB B	0.0		1993	
	0.0/	0.00	0.0/	0.0	0.00/	0.00			0.0			
	2.5/	0.18	279.8/	5.2	1.48/	0.01	20- 370		16.3			
	2.6/	0.18	279.8/	5.2	1.47/	0.01	20- 370		16.3			
	1.4/	0.25	8.2/	0.6	1.33/	0.02	2- 19		19.3			
	1.1/	0.13	24.9/	1.7	1.33/	0.02	14- 32		0.0			
	1.1/	0.11	33.2/	2.1	1.33/	0.02	2- 32	SUB C	19.3		1976	FOREMOST FM
	2.5/	0.23	12.9/	0.9	1.35/	0.02	4- 36		14.9			
	1.0/	0.13	8.9/	0.8	1.35/	0.02	11- 47		0.0			
	1.9/	0.14	21.8/	1.1	1.35/	0.02	4- 47	LIG A	14.9		1976	EASTEND FM, AND PERHAPS RAVENSCRAIG FM

TABLE A-3 (Continued)

Coal Field	Seam	Initial In-Place			Recovery	Initial			Cumulative Prod			Remaining			Seams	
Coal Deposit	Class	Resources			Ratio	Reserves			By Mining Method			Reserves			Used	
		BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb		
No.	Name	megatonnes							megatonnes							
ISOLATED DEPOSITS																
3	DEVON	SURF	11/	1/	10	0.01	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	1
		U G THN	21/	1/	19	0.03	1/	0/	1	0.0	0.7	0.7	0/	0/	0	1
		U G MED	6/	0/	5	0.05	0/	0/	0	0.0	0.3	0.3	0/	0/	0	1
			38/	1/	36	0.03	1/	0/	1	<0.1	0.9	1.0	0/	0/	0	1
4	LUCKY STRIKE	SURF	20/	2/	16	0.33	7/	1/	5	<0.1	<0.1	<0.1	7/	1/	5	1
		U G THN	18/	2/	12	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
			36/	3/	29	0.18	7/	1/	5	<0.1	<0.1	<0.1	7/	1/	5	2
5	POT HOLE	U G THN	19/	2/	15	0.01	0/	0/	0	0.0	0.1	0.1	0/	0/	0	1
			19/	2/	15	0.01	0/	0/	0	0.0	0.1	0.1	0/	0/	0	1
6	SAWRIDGE HILL	SURF	8/	1/	4	0.00	0/	0/	0	<0.1	0.0	<0.1	0/	0/	0	1
		U G THN	25/	3/	19	0.00	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	2
		U G MED	20/	2/	16	0.40	8/	1/	7	0.0	0.0	0.0	8/	1/	7	2
			51/	4/	43	0.15	8/	1/	7	<0.1	<0.1	<0.1	8/	1/	7	2
7	SWAN HILLS	SURF	39/	11/	17	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
		U G THN	11/	2/	7	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	1
			49/	11/	28	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	3
8	THORHILD-ABEE	SURF	35/	4/	26	0.38	17/	4/	10	0.5	<0.1	0.5	17/	4/	10	2
		U G THN	23/	2/	19	0.00	0/	0/	0	0.0	0.0	0.0	0/	0/	0	2
			58/	5/	48	0.21	17/	4/	10	0.5	<0.1	0.5	17/	4/	10	2
		SURF	169/	13/	142	0.37	66/	7/	52	0.5	<0.1	0.6	65/	7/	51	
		U G	188/	7/	173	0.04	9/	1/	8	0.0	1.1	1.1	8/	1/	7	
		356/	15/	326	0.19	75/	7/	61	0.5	1.2	1.7	73/	7/	60		
MISCELLANEOUS																
1	HIGH VOL BIT	SURF	0/	0/	0	0.59	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G THN	0/	0/	0	0.68	0/	0/	0	0.0	0.1	0.1	0/	0/	0	
			0/	0/	0	0.65	0/	0/	0	<0.1	0.1	0.2	0/	0/	0	
2	SUBBITUMINOUS A	SURF	0/	0/	0	0.06	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G THN	0/	0/	0	0.83	0/	0/	0	0.0	0.2	0.2	0/	0/	0	
		U G MED	0/	0/	0	0.58	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			1/	0/	0	0.57	0/	0/	0	<0.1	0.2	0.2	0/	0/	0	
3	SUBBITUMINOUS B	SURF	1/	0/	0	0.84	0/	0/	0	<0.1	0.3	0.3	0/	0/	0	
		U G THN	0/	0/	0	0.66	0/	0/	0	0.0	0.1	0.1	0/	0/	0	
			1/	0/	1	0.78	0/	0/	0	<0.1	0.4	0.5	0/	0/	0	
4	SUBBITUMINOUS C	SURF	0/	0/	0	0.89	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G THN	0/	0/	0	0.47	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
		U G MED	0/	0/	0	0.39	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			1/	0/	0	0.55	0/	0/	0	<0.1	0.2	0.2	0/	0/	0	

Plains Region

Avg Dip	Aggregate Avg Thickness BE/ SE	Map Area BE/ SE	Density Used BE/ SE	Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
deg	metres	sq km	t/cubic m	metres	ASTM	MJ/kg			
	1.3/ 0.06	6.6/ 0.3	1.32/ 0.02	2- 16		0.0			
	1.2/ 0.05	13.0/ 0.4	1.32/ 0.02	9- 38		0.0			
	1.6/ 0.05	2.8/ 0.2	1.32/ 0.02	24- 34		0.0			
	1.3/ 0.02	22.4/ 0.4	1.32/ 0.02	2- 38	SUB B	0.0		1978	HORSESHOE CANYON FM, CARBON-THOMPSON COAL ZONE
	1.1/ 0.08	13.1/ 1.0	1.40/ 0.02	2- 15		19.8			
	0.8/ 0.06	13.4/ 1.0	1.47/ 0.02	10- 36		0.0			
	0.9/ 0.05	26.5/ 1.9	1.43/ 0.02	2- 36	SUB A/B	19.8		1976	FOREMOST FM
	1.1/ 0.10	12.4/ 0.6	1.40/ 0.02	8- 66		0.0			
	1.1/ 0.10	12.4/ 0.6	1.40/ 0.02	8- 66	H-V C	0.0		1976	OLDMAN FM
	1.4/ 0.14	3.2/ 0.3	1.30/ 0.02	4- 21		0.0			
	1.0/ 0.10	17.6/ 0.9	1.41/ 0.02	13- 89		0.0			
	1.8/ 0.07	7.8/ 0.7	1.44/ 0.02	33- 96		13.7			
	1.3/ 0.09	27.3/ 1.0	1.42/ 0.02	4- 96	LIG A	13.7	3	1976	WAPITI FM
	2.4/ 0.63	11.3/ 1.0	1.44/ 0.02	5- 44		0.0			
	0.8/ 0.13	9.7/ 1.0	1.41/ 0.02	27- 74		0.0			
	1.7/ 0.35	20.9/ 1.4	1.43/ 0.02	5- 74	SUB C	0.0	3	1976	SCOLLARD FM, ARDLEY COAL ZONE
	1.5/ 0.17	17.0/ 0.9	1.37/ 0.02	2- 16		16.5			
	0.7/ 0.03	22.0/ 1.3	1.37/ 0.02	9- 22		0.0			
	1.1/ 0.08	39.0/ 1.9	1.37/ 0.02	2- 22	SUBC/LIG	16.5		1976	MINE #1562 - NOT PRODUCING, WAPITI FM
	1.7/ 0.12	72.2/ 2.3	1.38/ 0.01	2- 44		16.2			
	1.0/ 0.03	131.2/ 3.0	1.38/ 0.01	8- 96		13.7			
	1.3/ 0.05	203.4/ 3.9	1.38/ 0.01	2- 96		15.9			

H-V B

SUB A

SUB B

SUB C

TABLE A-3 (Continued)

Coal Field Coal Deposit		Seam Class	Initial In-Place Resources			Recovery Ratio	Initial Reserves			Cumulative Prod By Mining Method			Remaining Reserves			Seams Used
			BE/	SE/	Estb		BE/	SE/	Estb	Surf	U G	Tot	BE/	SE/	Estb	
No.	Name		megatonnes				megatonnes			megatonnes						
MISCELLANEOUS																
5	LIGNITE A	SURF	0/	0/	0	0.48	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G THN	0/	0/	0	0.08	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
		U G MED	0/	0/	0	0.45	0/	0/	0	0.0	<0.1	<0.1	0/	0/	0	
			0/	0/	0	0.51	0/	0/	0	<0.1	<0.1	0.1	0/	0/	0	
		SURF	1/	0/	1	0.69	1/	0/	1	0.1	0.4	0.5	0/	0/	0	
		U G	2/	0/	1	0.49	1/	0/	1	0.0	0.7	0.7	0/	0/	0	
			3/	0/	2	0.55	1/	0/	1	0.1	1.1	1.2	0/	0/	0	
		SURF	13731/	88/13556		0.66	9033/	53/	8928	495.9	21.2	517.2	8516/	53/	8411	
		U G	69300/	388/68524		0.32	22111/	168/21775		0.0	91.7	91.7	22020/	168/	21683	
GRAND TOTAL			83032/	392/82248		0.37	31145/	170/30805		495.9	112.9	608.9	30536/	170/	30196	
TOTALS BY RANK																
RANK																
	H-V B	SURF	0/	0/	0	0.90	0/	0/	0	<0.1	<0.1	<0.1	0/	0/	0	
		U G	0/	0/	0	0.69	0/	0/	0	0.0	0.1	0.1	0/	0/	0	
			0/	0/	0	0.64	0/	0/	0	<0.1	0.1	0.2	0/	0/	0	
	H-V C	SURF	161/	11/	139	0.74	120/	9/	102	0.0	0.4	0.4	120/	9/	102	
		U G	1608/	26/	1557	0.35	570/	11/	549	0.0	23.0	23.0	547/	11/	526	
			1789/	26/	1718	0.39	690/	14/	663	0.0	23.4	23.4	667/	14/	640	
	SUB A	SURF	377/	28/	321	0.31	120/	10/	101	1.7	0.4	2.1	118/	10/	99	
		U G	8114/	188/	7737	0.32	2685/	93/	2499	0.0	3.8	3.8	2681/	93/	2496	
			8491/	187/	8116	0.32	2806/	93/	2619	1.7	4.2	5.9	2800/	93/	2613	
	SUB B	SURF	7191/	49/	7092	0.70	5038/	34/	4970	362.1	9.5	371.6	4867/	34/	4599	
		U G	41781/	252/41277		0.38	16026/	120/15786		0.0	52.6	52.6	15973/	120/	15733	
			48973/	248/48477		0.43	21064/	117/20830		362.1	62.1	424.2	20640/	117/	20406	
	SUB C	SURF	5851/	65/	5722	0.63	3663/	37/	3589	131.9	10.8	142.7	3521/	37/	3446	
		U G	17115/	222/16670		0.15	2696/	70/	2556	0.0	12.0	12.0	2684/	70/	2544	
			22967/	234/22499		0.28	6360/	78/	6203	131.9	22.9	154.8	6205/	78/	6048	
	LIG A	SURF	150/	9/	131	0.58	91/	7/	76	0.3	<0.1	0.3	91/	7/	76	
		U G	682/	39/	604	0.19	134/	11/	112	0.0	<0.1	<0.1	134/	11/	112	
			831/	40/	751	0.26	225/	13/	199	0.3	0.1	0.4	225/	13/	198	

Plains Region

Avg Dip	Aggregate Avg Thickness		Map Area		Density Used		Depth Range	Rank	As Mined H V	Land Catg	Year Calc	Remarks
	BE/	SE	BE/	SE	BE/	SE						
deg	metres		sq km		t/cubic m		metres	ASTM	MJ/kg			
LIG A												
	2.9/	0.01	3347.0/	12.2	1.42/	0.00			17.7			
	3.2/	0.01	15254.8/	42.8	1.44/	0.00			18.5			
	3.2/	0.01	18428.2/	48.5	1.43/	0.00			18.3			
	1.5/	0.15	0.1/	0.0	1.40/	0.14	1- 10		0.0			
	1.0/	0.10	0.2/	0.0	1.40/	0.14	10- 50		0.0			
	1.1/	0.08	0.3/	0.0	1.40/	0.10	1- 50	H-V B	0.0			
	2.5/	0.07	43.2/	2.3	1.49/	0.01	2- 60		20.2			
	1.8/	0.02	601.1/	6.1	1.46/	0.00	8-346		22.2			
	1.9/	0.02	641.9/	5.3	1.46/	0.00	2-346	H-V C	21.9			
	2.2/	0.12	112.0/	5.2	1.50/	0.00	1- 60		18.6			
	4.4/	0.09	1289.1/	10.6	1.43/	0.01	10-600		20.5			
	4.3/	0.05	1368.8/	13.4	1.43/	0.01	1-600	SUB A	20.5			
	3.5/	0.02	1440.2/	6.3	1.44/	0.00	1- 60		18.0			
	3.3/	0.01	8821.4/	30.9	1.45/	0.00	9-370		18.3			
	3.3/	0.01	10213.5/	31.4	1.44/	0.00	1-370	SUB B	18.3			
	2.5/	0.02	1692.5/	9.4	1.39/	0.00	1- 60		17.3			
	2.9/	0.03	4259.6/	24.0	1.41/	0.00	8-320		17.2			
	2.8/	0.02	5869.3/	29.6	1.41/	0.00	1-320	SUB C	17.2			
	1.9/	0.10	59.0/	1.6	1.35/	0.01	1- 39		14.5			
	1.8/	0.09	283.4/	5.7	1.38/	0.01	9-126		14.8			
	1.8/	0.05	334.5/	13.0	1.37/	0.01	1-126	LIG A	14.7			

Appendix IV Tables of Coal Occurrences

Coal occurrences located in the Mountain and Foothills Regions are listed alphabetically in Tables B.1 and B.2 respectively.

In each table the number, average dip, and aggregate average thickness of the coal seams that might, with additional data, be used in a deposit calculation have been listed. A question mark shows where there is poor confidence placed on these values.

Each table also contains the ASTM rank and the geological group or formation where this information is known.

Table B.1. Coal Occurrences in the Mountain Region of Alberta as of December 31, 1999

Name	Number of Seams	Average Dip (degrees)	Aggregate Average Thickness (m)	Rank (ASTM)	Group or Formation
Bighorn Falls	2	15	4.0	L-V/M-V	Luscar
Burns	2	50	10.8	L-V	Kootenay
Canyon Creek	1	35	1.1	H-V B	Kootenay
Daisy Creek	1	42	4.5	M-V	Kootenay
Grave Flats	4	50	6.0	M-V	Luscar
Hallstone Butte	1	60	2.3	M-V	Kootenay
March Creek	1	38	0.7	L-V	Kootenay
Muskiki Lake	3	45	6.0	M-V	Luscar
Picklejar Creek	6	40	21.6	L-V	Kootenay
Pocket Creek	1	42	4.5	M-V	Kootenay
Pope Creek	2	50	16.3	M-V/H-V A	Luscar
Rock Lake	2	45	16.6	M-V/H-V A	Luscar
Sheep Creek	2	20	4.4	L-V	Kootenay

Table B.2. Coal Occurrences in the Foothills Region of Alberta as of December 31, 1999

Name	Number of Seams	Average Dip (degrees)	Aggregate Average Thickness (m)	Rank (ASTM)	Group or Formation
Baril Creek	4	1	7.7		Coalspur
Black Diamond	1	52	2.7	H-V B	Brazeau
Bob Creek	1	61	1.2	H-V B	Belly River
Boundary Creek	1	40	1.2		St. Mary River
Bull Creek	1	85	1.5		Brazeau
Chungo Creek	2	25	2.1	H-V C	Coalspur
Coalcamp Creek	1	20	0.6	H-V C	Brazeau
Cowley	1	60	2.5		Belly River
Dismal Creek	5	50	6.07	H-V C	Coalspur
Dixon	1	30	0.9	H-V C	Brazeau
Elk River	67	50	5.07	H-V C	Coalspur
Fish Creek West	1	30	1.4	H-V B	Brazeau
Fish Creek East	1	15	1.1	H-V B/C	Brazeau
Grand Valley Creek	1	29	2.6	H-V C	Brazeau
Lee Creek	1	30	3.97		St. Mary River
McLennan Creek	1	45	2.17		Brazeau
Piney Ridge	1	40	1.07		St. Mary River
Prairie Creek	5	15	10.07	H-V C	Brazeau
Priddis Creek	1	30	1.4	H-V B	Brazeau
Sheep River	1	47	0.8	H-V A/B	Brazeau
Silver Creek	1	35	0.9	H-V B	Brazeau
Spring Creek	2	53	2.6	H-V B	Brazeau
Waterton River	1	40	1.1		Belly River

Appendix V References

- American Society for Testing and Materials, 1980, *Annual Book of ASTM Standards*, Part 26: Gaseous Fuels, Coal and Coke (Philadelphia: American Society for Testing and Materials).
- Bonnell, G. W., and Janke, L. C., 1986, *Analysis Directory of Canadian Commercial Coals—Supplement No. 6*, Canmet Report 85-11E (Ottawa: Energy Mines and Resources Canada).
- Campbell, J. D., 1964, *Catalogue of Coal Mines of the Alberta Plains*, Preliminary Report 64-3 (Edmonton: Research Council of Alberta).
- Department of Energy and Natural Resources, 1976, *A Coal Development Policy for Alberta* (Edmonton: Government of Alberta).
- Energy Resources Conservation Board, *Reserves of Coal, Province of Alberta, at December 1981*, ERCB Report 82-31 (Calgary).
- Faurschou, D. K., Bonnell, G. W., and Janke, L. C., 1982, *Analysis Directory of Canadian Commercial Coals - Supplement No. 4*, Canmet Report 82-13E (Ottawa: Energy Mines and Resources Canada).
- Holter, M. E., Yurko, J. R., and Chu, M., 1975, *Geology and Coal Reserves of the Ardley Coal Zone of Central Alberta*, Report 75-7 (Edmonton: Alberta Research Council).
- Macdonald, D. E., et al., 1987, *A Regional Evaluation of Coal Quality in the Southern and Central Foothills/Mountains Region of Alberta*, Open File Report 1987-9 (Edmonton: Alberta Research Council).
- Macdonald, D. E., et al., 1989, *A Regional Evaluation of Coal Quality in the Northern Foothills/Mountains Region of Alberta*, Open File Report 1989-01 (Edmonton: Alberta Research Council).
- MacKay, B. R., 1946, "Coal Reserves of Canada," reprint of Chapter 2 and Appendix A of *Report of the Royal Commission on Coal* (Ottawa).
- Montgomery, W. J., and Behnke, G. C., 1965, *Analyses of Coal and Coke During 1964*, Mines Branch Information Circular IC 173 (Ottawa: Department of Mines and Technical Surveys).
- Montgomery, W. J., and Behnke, G. C., 1966, *Analyses of Coal and Coke During 1965*, Mines Branch Information Circular IC 182 (Ottawa: Department of Mines and Technical Surveys).
- Nurkowski, J. R., 1984, "Coal Quality, Coal Rank Variation and Its Relation to Reconstructed Overburden, Upper Cretaceous and Tertiary Plains Coals, Alberta, Canada," *American Association of Petroleum Geology Bulletin*, 68, No. (3).
- Swartzman, E., 1953, *Analysis Directory of Canadian Coals*, 2nd edition (Ottawa: Mines Branch, Fuels Division, No. 836, Department of Mines and Technical Surveys).
- Tibbetts, T. E., 1974, *Evaluation of Canadian Commercial Coals: 1973 Saskatchewan, Alberta and British Columbia*, Mines Branch Information Circular IC 314 (Ottawa: Department of Energy, Mines and Resources).
- Weaver, A. G. T., et al., 1978, *Report of Joint Task Force on Uniform Reserves Terminology* (Inter-Provincial Advisory Committee on Energy [IPACE]).

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